

WORLDWIDE TV-FM DX ASSOCIATION

The Official Publication of the Worldwide TV-FM DX Association

APRIL 1992

-YOU'VE TUNED IN TO 91.6, K-VOID. THE ONE SPOT ON YOUR DIAL WITH NO PROGRAMMING WHATSOEVER. -YOU'VE TUNED IN TO 91.6, K-VOID.

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PIPARO.



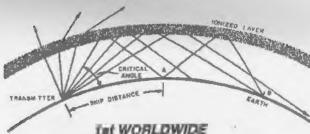
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### ANNOUNCING



## VHF IONOSPHERIC PROPAGATION SYMPOSIUM

TO BE HELD IN CONJUCTION WITH THE CENTRAL STATES VHF SOCIETY ANNUAL CONFERENCE IN KERRVILLE. TEXAS JULY 16 - 19, 1992

#### PRELIMINARY CALL FOR PAPERS

The VHF IONOSPHERIC PROPAGATION SYMPOSIUM will be devoted to the study and dissemination of information relating to the ionospheric propagation of radio signals at 50 mhz and above. Because of the very high level of world-wide activity associated with the recent solar cycle peak, we expect there will be a special emphasis on presentations and discussions concerning SIX METER propagation. We encourage papers on all forms of ionospheric propagation including F-Layer, TEP, E-Skip, Scatter, Aurora, and PAI on 50 Mhz and above.

Those wishing to present papers in this symposium should submit an abstract to the Program Chairman (address below) as soon as possible, but not later than April 15th, 1992. (Papers on other VHF/UFH/Micorwave topics should be submitted to: Derwin King, W5LUU, 7335 Wild Eagle Rd., San Antonio, TX 78255) All accepted papers will be included in the Proceedings of the Central States VHF Society published by the ARRL.

The symposium as well as the Central States Conference will be held at the YO Hilton Hotel in Kerrville, Texas - about an hour's drive from San Antonio. Most major air carriers service San Antonio.

In addition, a wild-west TEXAS STYLE BARBECUE, will be hosted by Bill Tynan - W3XO, CSVHFS 1991 President, on Sunday, July 19th at Bill's QTH on the Tierra Linda Ranch just outside of Kerrvile.

To submit abstracts or for Program information:

Dave Batcho, N5JHV 5611 Desert Star Road Las Cruces, NM 88005 (Phone 505 526 1861)

For information on Registration and Attendance:

Larry Hazelwood, W5N2S PO Box 54437 Oklahoma City, OK 73154 (Phone 405 848 6400)

## elevision

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#### ABBREVIATIONS USED IN THIS COLUMN:

ERP= Effective Radiated Power, in HAAT=Height Above Average Terrain. in meters AAT= Above Average Terrain AG= Above Ground ASL= Above Sea Level nc= No change TL= Transmitter Location Construction permit

MD-Modification permit (modification of construction permit) #= Non-commercial

#### APPLICATIONS FOR NEW TV EMOLTATE

ERP HAAI City TX 40 1460 113 Rio Grande C.

#### CONSTRUCTION PERMITS FOR **NEW STATIONS**

St Ch ERP HAAI City MI 45 153.2 290 Vanderbilt

#### APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

St Ch ERP HAAT Call City NE 15 2529 390 KPQC Omaha SD 12 316 259 KTTM Huron

#### CONSTRUCTION PERMIT MODIFICATIONS GRANTED

St Ch ERP HAAT Call City GA 34 nc nc WUBI Baxley (TL change only: 31'45'53"N, 82'13'38"W 4.7km S of Ga 144, 11.6km E of Baxley) NC 14 1200 193 WYDO Greenville (TL:35'22'18"N, 77'24'04"W NC 118, 2.2km E of Grifton)

#### APPLICATIONS TO CHANGE **EXISTING STATIONS**

St Ch ERP HAAT Call OR 21 133 197 KTVZ City Bend (TL: 44'04'40"N, 121'19'49"W (Awbrey Butte) SD 17 196.7 151 KTTW Sioux Falls (TL: 43'29'20"N, 96'45'40"W RR3 Yankton Rd.)

#### APPLICATIONS TO CHANGE **EXISTING STATIONS** (Cont'd.)

St Ch ERP HAAT Call VA 65 398 254 WZXK Ash land (TL: 37'44'32"N, 77'15'18"W

#### CHANGES GRANTED TO **EXISTING STATIONS**

St Ch ERP HAAI Call City
IA 15 2.213 363 KOIA-TV Ottumwa (TL: 41'11'42"N, 91'57'15"W 2.1km NNE of Ia. 1 and 78) NE 19 787.5 342 KXNE-TV Norfolk (TL: 42'14'15"N, 97'16'41"W Hwy. 98, 8km SW of Carroll) OH 43 204 284 WUAB Lorain PR 18 500 563 WSJU San Juan (TL: 18'16'44"N, 65'51'12"W Munic. of Loiza)

#### CALL LETTER CHANGES FOR **EXISTING STATIONS**

St Ch Old New City WEOU Wilson OR 32 KUTE KERN Salem

#### CALLS GRANTED TO NEW STATIONS

St Call City Butte: CTN MT KWYS Del Rio; Republic TX KTRG Bostg. Co.

#### OTHER STUFF

The Sucreme Court has blocked ban "indecent" attempts to broadcasts. The Court let stand a lower court ruling that a 24-hour ban on indecency, ordered by Congress in 1986, is a violation of the right to free speech.

The ruling allows the FCC to continue to restrict such broadcasts to hours when, presumably, parents are controlling their children's viewing; currently, the Commission's policy is to presume this control between 8PM and 6AM.

Indecency is defined by the FCC as "language that describes in terms patently offensive, as measured by contemporary community standards for the broadcast medium, sexual or excratory activities and organs." Obscenity, which is banned at all times, is defined by the Supreme Court as "material that appeals to prurient interest and lacks serious artistic, literary, political or scientific value."

Also in the courts, the FCC's policy of giving preference to female applicants in license hearings has been overturned by the

U.S. Court of Appeals in Washington. New Supreme Court justice Clarence Thomas wrote the opinion, in which he said that the government has failed to show that female-owned stations are more likely to air programs beneficial to women.

Iowa State University is selling WOI-TV 5 Ames/Des Moines. WOI-TV is the ABC affiliate for the Des Moines market, and is unique in that WOI AM & FM are non-commercial public radio stations.

Locally, WKNT-40 Bowling Green, KY is back on the air. They're still pretty weak, seen only during tropo. Programming seems to be a relay of WGRB-34 Campbellsville, but with their own IDs.

#### FORUM

#### Bill Nienajadly, Clifton NJ:

Bill continues to provide greatly appreciated newspaper clippings...

According to the March 3 NYC Daily News, two stations have dropped the Howard Stern syndicated TV program. WFXT-25 Boston dropped it after the Feb. 8 program featured a "Kielbasa Queen" who stuffed a footing sausage down her throat. WNPL-45 Naples, FL didn't cite any specific episode, but said they were receiving too many complaints from the general public.

Also in the March 3 Daily News. WPIX-11 NYC (a commercial station) will be running 30-second PSAs encouraging viewers to watch WNET-13's pledge drive. WPIX's general manager Michael Elegner says "We are all in business to serve the community. Public-supported TV is able to provide certain types of programs and services that commercial stations cannot." WNET, which lost \$3,500,000 in state funding last year, may lose another \$1 million this year, and hopes to raise \$3.4 million in this spring's pledge drive.

And from the March 4 Newark Star-Ledger, "Starting today and running for the next 8 weeks, federal officials at the Advanced Television Test Center in Virginia will begin testing a HDTV system developed by researchers at AT&T and Zenith Electronic Corp.." Their system is competing with 5 others to become the U.S. standard.

Testing is taking place under strict security, in an attempt to ensure unbiased evaluation. After 9AM March 4, AT&T/Zenith engineers were permitted no further adjustments to their equipment; test engineers

are forbidden to reveal how other systems have fared; and strict deadlines are applied. The creators of the winning system can expect militons in licensing fees if HDTV catches on.

The Zenith/ATAT system uses digital signal processing to compress the video information, fitting a high-definition picture into the SMHz of a regular NTSC channel. The system also claims to be able to use the "taboo" UHF channels, allowing over-the-air HDTV broadcasts without allocation of new spectrum. A compression algorithm developed by Bell Labs cuts back on the amount of information that must be transmitted by predicting how objects in a scene will move, and transmitting data about stationery objects only once.

Two of the 5 HDTV systems being evaluated were developed at least partially in New Jersey; others are Japanese and European.

#### Roger Windsor, Valparaiso IN:

Roger left a message on my answering machine with some LPTV info; two new stations, W04CQ Chesterton and W18AT Gary. Both are apparently with a new "Dunes Television Network". (referring to the Indiana Dunes, on the south shore of Lake Michigan. I'll bet WTMJ-TV and WVTV cause plenty of CCI!

If you've got fast-breaking news, or just would rather not write, feel free to call at 615-356-8305, from 9AM-midnight Central time. (sorry, no collect calls; you'll probably get an answering machine anyway!)

#### FCC RULES PRIMER

Assorted TV technical rules:

Channels 5 and 6 were allocated to two-way radio in Alaska and Hawaii until a few years ago. Channel 17 is still unavailable for TV in Hawaii. Channel 37 is reserved for radio astronomy. (my understanding is that the resonant frequency of the hydrogen atom is in channel 37)

Full-power TV stations must use at least 100 watts ERP. Low-band VHF stations (channels 2-6) are limited to a maximum of 100kW; high-band (7-13) to 316kW; UHF to 5000kW. These are for antenna heights of 300m or less in Zone I, 600m in Zones II and III.

VHF stations on the same channel must be at least 272.7km apart in Zone I; 304.9km apart in Zone II;

and 353.2km in Zone III. For UHF, the separation is 248.6km in Zons I, 280.8km in Zone II, and 329km in Zone III. (these don't work out to even numbers in miles either!)

VHF stations on adjacent channels must be at least 95.7km apart. Since there are wide gaps between channels 4/5. 6/7, and 13/14, these restrictions don't apply to those channels.

UHF stations must be at least:

20 miles from other UHFs separated by 8 channels, due to IF heterodynes.

20 miles from other UHFs within 5 channels, due to intermodulation.

55 miles from adjacent-channel stations.

60 miles from UHFs 7 channels away, due to radiation of local oscillators.

60 miles from UHFs 14 channels away, due to the image of the aural carrier.

75 miles from UHFs 15 channels away, due to the image of the visual carrier.

These are the "taboo" channels. For example, in Wausau, Wis., home of WHRM-TV 20, UHF channels 15-25, 27, 28, 34, and 35 are all unavailable.

Zones I, II, and III are have different separations due to differences in population density and propagation. Roughly:

Zone I includes MA, CT, RI, NJ, PA, DE, MD, DC, WV, OH, IN, IL., and roughly the northern half of VA: southeastern quarter of WI; southern half of lower MI; NY south of Saratoga Springs; VT and NH south of Rutland; and coastal ME.

Zone III includes all of Florida and Gulf Coast regions, including GA south of a line from Brunswick to Columbus; roughly the southern halves of AL and MS; most of LA; and areas of TX within 150 miles of the Gulf Coast.

Zone II is the rest of the USA.

All TV stations (and radio, for that matter) must have at least one person holding a commercial radio operator license (of any class) on duty whenever the transmitter is on the air. This operator must be at the transmitter or an authorized remote control point. (there is nothing in the regulations specifying how close the operator must be to the

transmitter -- only that the operator is able to make necessary adjustments to keep the station legal.)

TV stations must also appoint a "Chief Operator", who must be a station amployee (not a self-employed contract engineer) responsible for regular inspection of the transmitting equipment and calibration of monitors & meters, and for inspection and approval of the transmitter log.

TV stations may not control m "peculiarly suitable" transmitter site. For example, WNBC-TV could not obtain an exclusive contract for use of the World Trade Center for their antenna.

TV licenses are issued for 5-year terms. The expiration date varies depending on the state in which the station is located-for example, in Tennessee. Kentucky, and Indiana, TV licenses expire on August 1 of this year; while in Illinois and wisconsin, they expire on December 1.

Stations are required to identify themselves as close to the hour as feasible, at a natural break in programming. The ID may be aural, visual, or both.

Station IDs consist of the station's call letters immediately followed by the city of license. The name of the license or the station's channel number may be inserted, but nothing else. For example:

"WSMV, a Cook Inlet station, Nashville" "WSMV, Channel 4, Nashville"

are both legal.

"WSMV, Your Wheel of Fortune Station, Nashville"

is not.

73 Doug





Adolph MN 55701-0024, U.S. A.

Bruce F. Elving, Ph.D., Editor

Contributions earnestly solicited!

#### Readers' Reports

A person I enjoyed meeting at the WTFDA convention is Tom Bryant, who sent a Nashville newspaper story on WRLT 100.1 Franklin TN, which could become noncommercial, if the public library, licenses of WPLN \*90.3, has its way. Or, DXers might still get commercial programming on 100.1 if one of two bids for the channel, now in receivership (and presumably still on the air and DX ready), is approved by the FCC. A group headed by Ned Horton, WRLT manager, has offered \$411,000 for the station; this tops a bid of \$400,000 by Dallas-based KBR Broadcasting Group, The Library asks for more time to put together its bid, which would give it an advantage, since it knows what the other bids are. Horton, an "FM Atlas" reader, has another plan up his sleeve, and that is to take over unbuilt WYPE 94.1 Smyrna TN. WPLN would use 100.1 for its classical service, changing \*90.3 to more talk, but presumably still carrying music and having stereo.

Ken Chatterton of the National Radio Club says "The 14th adition FM Atlas looks great," and he included a form letter mentioning a change in management of that club. Mike Knitter has "resigned all official positions with the club." and all correspondence should go to the PO Box 164. Mannsville NY 13661-0164 address. He mentions that others may be offering products and publications similar to the NRC's, which is legal. "We understand that some items may be offered under names similar to ours and noted as 'formerly the NRC (whatever)'. That statement should not be considered as true. The long-time AM Radio Log is being completely updated and will be issued by the NRC as scheduled on Sept. 1, 1992. We have not authorized the use of the NRC name directly or by inference by snyone." Ken. said there will be no NRC FM map book or log: "didn't sell errough,"

John Ebeling came back from a trip and confirmed that a DX target, YES-FM 104.1 in Barbados is 4 kw. I enjoyed getting the FM station database/printout from Fred Nordouist, who plans to use the new FM Atlas to find new cities to add to his political unit data files that are used in conjunction with calculating distances. He has reworked the data, segregating countries like Anguilla and Antique from the U.S. states, and asks if I know the coordinates of "every hamlet, mountain peak and wide spot in the road (e.g. Quebec was especially troublesome) in the USA and Canada?" [All I know is the NTIS database for the U.S. and border areas of Canada and Mexico which lists coordinates; its address is found at the end of my "FM Atlas."] Fred goes on:

"I am slowly working on a related project whereby I will be able to print FM/TV channel maps by computer, using the grid coordinates to locate and print station calls on 11 by 14 inch paper. It's going to take some time to add all of the frequencies to my existing city location database files. I've already developed the algorithms to translate the grid coordinates to print positions, along with menu-driven sizing of map coverages. DXing is nonexistent lately . . . I've been experimenting with antenna phasing techniques. Also, the 110 kHz filter mod allowed me to switch my Carver TX-11A USA/European switch back from 50 kHz to 100 kHz increments since adjacent channel reception next to local powerhouses is no longer a problem. Keep up the good work on your FM Atles and FM FCC columns.

"I like the new Atlas maps," writes Gus Mancuso. "The way they fill up the pages more. Hadn't thought of moving print closer to the middle seam. Very clever-with PA stretching state vertical only! Hey, you DO listen to me, changed WPLJ format to rs from r. Too 40 may be dead--W85B, WAVA here both dropped it this winter. I'd be curious to know about other markets. Neither of above has carried a national top 40 countdown show in about a year. How about more info on the seeming power increases for translators? Would like to know which still are at 10 watts and which higher. Did anyone watch PBS show on three pioneers of early radio?" [A version of it was also on public radio, discussing Armstrong, de Forest and Samoff-b.e.] "Noticed a couple of Ontario FMs went off ICKO stations). What happened? Maps again: still think E. KY and E. TN on one map- western halves on another! What's with 'non-sequiter' handles? WRED using WTOD-FM [Gibsonburg-Toledo OH]. I don't get it. In process of making AM and FM same calls? You never printed my follow up on WMMX using false calls ('WMIX')," I think WTOD wants to save the WRED calls in case they want to use them on AM or FM later, while the new "FM Atlas" shows translators and boosters having over 100 watts in larger type on the maps. "Took notice of the new station in Ledyard CT [WBMW 106.5, \$]. A gambling casino is being built there on an Indian reservation. . . I had thought about a bandscan from the Groton/New London area. As you can see, it's away from any dial-crowded area, but close enough to NYC, Boston, Hartford, etc., plus close to ocean for that water enhancement." () was there in the '60s and there were no local FMs then; only weak reception from Providence-b.e.I "Did you see that Mount Greylock bandscan? I told George that valleys are better than mountains-now he knows what I mean. Reception too stagnant when gain strong. Am going to tape the last 90 minutes of WAVA as top 40 tonite.

Returning from a trip to AZ is Karl Zuk, "KOST Sedona AZ is a Class A and probably won't move and go to Class C at 100,000 watts, Station is owned by an 87-year-old gentleman, and his son does drive time. Heavy metal, ughl Yes, it's in stereo, and on 100.1! They are on their fourth extension of the CP for frequency/power change and with almost nonexistent ad time, I don't know how they will find the money to up their power. Also, commenting on p. 6 of the March VUD, re: WAMC Albany NY I disagree! The Mount Greylock is great When WHPC/WBAU, both stereo. Garden City NY and WHCR (mono) New York NY are off 90.3 I can get WAMC on a \$10 walkman on the west side of Manhattan walking between big steel buildings. Their 90.3 signal is a super signal like WSPK 104.7 Poughkeepsie and WALK 97.5, both stereo, Patchoque."

obstructed by local terrain-b.e.] After he got back to NY, Karl received a list of AZ cable frequencies from (from WSOC-FM). Warner Cable of Sedona. That answers why he has heard such things as KNIX Phoenix on 104,7 and KAFF Flagstaff on 100,7--cable leakage.

Tennessee's Douglas E. Smith says local WFSK \*88,1 Nashville still off the eir, and he suspects this is 92.1. "I dropped the idea of 110 filter in the Superadio permanent. I hope he calls and tries to find out what might be the situation there; the number is (615) 329-8754, Doug says WYCQ 102.9's simulcast with WOZQ-FM 102.5 Dickson has failed: 102.5 now "b," It has a nonID of "Super Audio," and, gasp, no regular ID heard, "even on the hour." The new WQZQ-FM reanslator on 102.1 is on the air, WYYB 93.7 Dickson is on with mr. but I'd like to know if WYYB has stereo or not. "Noticed that you discuss LMAs in your new Atlas. In my humble opinion, LMAs are the wrong solution. They serve to prop up technically inferior stations (both-AM and FM). The real solution is to lat those inferior facilities dry up and go away, eliminating their interference to existing stations."

Ronald Purdue sent word about a new FM in Stewartville MN, KYBA on 105.3, not yet on air, but with tower to be built between Austin and Rochester. It seems they are looking for a new site farther north. He's is listed as 3 kw, but apparently is working to get 50 kw approval, KWWK Rochester expects to move from 96.7 to 96.5 with 39,100 watts this spring, while KRCH 101.7 has already achieved 50,000 DX-ready watts.

Robert Grant comments on Detroit radio, including the change from b to mr for WJOI 97.1-a change making that station less distinctive to the FM DXer-with ads that say "no elevator music." He sent a reprint from a local leftist newspaper, the "Metro Times," mentioning a short-lived pirate on 106.3, calling itself "Radio Free Detroit," Robert briefly heard the pirate one Thursday night "while driving home on the 1-75 freeway, they were under the noise less than 1.6 km from the area of killed by WWWW 106.7, also with downtown transmitter. in, sure enough, as the Detroit News article states, the FCC had already busted the station before I heard it. but could not shut off the station without a search warrant, RFD 106.3 has not been heard since. They could probably cover better, legally, with a 1-watt transmitter in the longwave band, but if it were legal, RFD probably would not want to do it anyway; the rebellion is the product, not the broadcast!"

Ernie Cooper orders an FM Atlas and keeps hoping "I'll find the type of programming in the listing by frequency, have suggested it several times, but I guess I have to give up. It sure would be a big help to DXers!" like you I am not getting any younger!]

Stephen West sent several PA area updates, and then noted on p. 7. March, West Palm Beach PA? Naturally that correction for WIRK 107.9 should read FL, WKSZ 100.3 Media PA now advertises a 50/50 mix of oldies and today, Supplying a list of Bible Broadcasting Network stations was Ken Onyschuk. One of the latest. Nordquist mentioned about 'torroids at 100 mHz' to be

[Yet the signal to the west in Troy is not good; perhaps is the sale of WSOC AM Charlotte to that religious network, forcing the FM on 103.7 to become WSOC"-FM"

Chris Dunne says the LMA between WXDJ 95.7 and WRTO 98.3 in S. FL has ended, with each assuming their own identities. WRTO now 100 kw, C, and displacing WCOO Immokalee, which will next appear on since I use phasing to catch some adjacents, but that might change. . . WKRY's power increase (93.5 Key West) will hurt my chances of hearing Santa Clara, CUBA on 93.5, but had a great (but brief) tropo opening to Cuba on 2/24 with 93.5 and a Radio Enciclopedia (Cuba) 88.7 (may be Santa Clara, too)."

Tracy Wood has moved to Atlanta, "where intermed Is terrible," and he says WFGG "88.3 Fort Gordon, about to be usurped by a new FM in Belvedere SC, WUOZ, has retreated to an antenna atop its studio building from the water tower, and will be looking for a new frequency, possibly the 89.9 one abandoned when WYFA changed. He was in OR and noted FM 107.5 Banks "is nothing but a relay of K-Love from Santa Rosa CA-same group which runs Prunedale-Salinas FM." WMVV \*90.7 McDonough GA still off the air. working with GA Tech to try to get an experimental license and test multipath resolution techniques. "A few years ago an outfit in Portland OR had a request for 104.1 to run low power experiments. Who is that outfit? Also somebody in PA has experimental FM license as Glenn Hauser reported." [I have no idea who to contact regarding those experiments, but you can get from the FCC a form to construct an experimental broadcasting station. However, good luck in getting the FCC to approve such; it is my experience the FCC is usually loathe to grant such requests-b.e.]

Hearing an FM pirate was Wendell Ford, a "WVTI" at Valparaiso [IN] Technical Institute, with 100 mw on the 'Cass Corridor' they were transmitting from, getting 90.5. But one night he got 'em loud and clear on 88.3 when WDSO Chesterton IN was off for Christmas I knew once the station had gone 'high profile' by being vacation. It is heard usually on Sunday nights and when exposed in the Metro Times that the FCC would swoop on 88.3 was received 16 km away, with only minor interference from WVPE \*88.1 Elkhart, Wendell must have a more selective car radio than Robert Grant! Wendell claims WLS-FM 94.7 Chicago is stereo, but I have my doubts. It must be proven that they actually broadcast at least 15 minutes of music a week in FM stereo or have at least 10 seconds of audio theme music per hour with stereo separation, exclusive of commercials and station promos, for it to merit a stereo listing in my book. I guess I'll have to contact their chief engineer, Warren Schulz, who is an FM Atles reader, to get the

On air and DX ready-WEDW \*88.5 Bridgeport CT, in [I'm sorry to have to keep disappointing you, Ernie, but stereo, reports Bill Nienajadly, and it gives its IDs with the space available and computer program I am using other CT Public Radio network stations. Also on is will not permit it-it would also take too much of my WOSR \*91.7, \$, Middletown NY with the "WAMC time to keep track of formats two ways-by geography. Network," They put out an "OK signal here and they and by frequency, I want to cut down my workload, for are heard in the car. Rich Shaftan says they're very strong by him and Bob Smolarek gets WOSR well too. The 110 kHz filters arrived after only a four week wait; Digi-Key said originally 10-14 weeks. . . 1992 FM Atlas is great, another job well done! But the indication of all the new stations coming on not just here but everywhere, shows the need for phasing these new 'pests', Fred

used for phasing and 'directional should be in GA, not AL, p. 33 NY Chateaussy 94.7 WXER couplers. I wrote to him asking for map). more info. Bruce, they repealed the mobile scenner law here in NJ and replaced it with something more month's VUD of interest here. intelligent." Bill sent a copy of the act repealing PL 1977, c. 426. He also sent a story about WFMV 106.3 planning to relocate its antenna from atop a fire warden's along the Appalachian Trail, The new site will "have a negative impact on the trail and its 50,000 users annually." permitting the manning of the fire tower and WFMV not to have to leave the air. The tower ceased being used because of concerns of radiation to the personnel working there.

Dr. Joel Rosenburg says this "column has kept up-to-date on the Toronto FM wars, other than that CJEZ 97.3 has added more vocals, contemporary, and less elevator music. Blank carrier occasionally heard on 89.3; no sign of Rawloo [92.5] yet." D, Bruce Hall sent the BBM ratings from Toronto showing CFRB/CFRX still in the lead. "I was most interested to read in your FM News about the transplant of 110 kHz filters in Rich Shaftan's JVC unit since I use the same unit myself with three 150s installed, I wrote Bill Nienajadly to ask about any improvement and availability of 110s." [I have 10 of the 110s on order from Digi-Key; and they tell me they have an additional 10 on order. This makes it seem they only special order the 110s for DXers like us!! Bruce says, "I hope with the arrival of my new 14th edition of the FM Atlas that it will bring along with it better DX conditions for better enjoyment of our hobby."

Mike Hogan gives the encouraging word that he's "finally back to WTFDA and FM DXing," I had a nice nice note from Gary Olson, mentioning surprise that the FM Atlas, which had been in the planning stages over 20 years ago when we lived in the Milwaukee area, is still around.

Writes Nick Lombardi: "The problem with FCC-FM these days is that it is a mere shadow of its former self. Many of the former categories aren't even reported any more, and those which are are often abbreviated or 'selected'." He then corrects on the location of Valley AL, being on the GA border near West Point (the West Point dot

Naw look for "See Also," where I summerize what was in last NY Smithtown 94,3 WMJE (WCTO), "Magic

New FM Station, Translator Grants AL Glencos WZJV 93.1 3000 h,v; 100 m

AZ Tucson K255AC \*98.9 (KJZZ 91,5 Phoenix; translator; had operated as K 2058P 88.9) CA Sun City 92,9 3000 h,v; 100 m CT Powcetuck 107.7 3000 h,v; 100 m HI Hill 95.9 59000 h,v; -70 m, Pacific View [31.1 Carlinville]

IL Jacksonville W212AN "90.3 (WIE)/ IA Sionx City K269EF \*101.7 (KGBI 100.7 Gmaha NE), transmitter S. Sioux City NE KS Clesrweter (Wichita) 98.7 6900 h.v.: 100 m LA Baker (Baton Aguge) 107.3 3000 h.v.: 100 m LA Lake Charles K215AD \*90.9 (KVLU 91.3 Beaument TX), on air [Rapids MN]

MN Bemidji K234AA \*94.7(KAXE 91.7Grand/ MT Helena \* 103.1 100060 h,v; 584 m, g, Hi-Line Radio Fallowship NV Incline Village K292EP 105.3 (KRNO-FM/ NV Reno K2028 R \*88.3 (KCJH 90.1 Stockton

CA), site 20 km SSW (Radio, Inc. NH Hamover \*91.3 150 h,v;378 m, NH Public/ NJ Belvidere 107, 1 3900 h.v; 120 m, Radio NJ ND Beulah 97.9 6000 h,v; 100 m OH Lebenon 97.3 3000 h.v.: 100 m. McMurrey

OR Pringville K240CE 95.9 (KNLR 97.5 Bend) TN Colonial Heights 185.9 6000 h.v.: 100 m TN Lawrenceburg W287AA 105.3 (WNDA 95.1 Huntsville AL)

TX San Antonio KYFS \*50.9, \$, g, 3000 h,v; 91 m, Bible Broadcasting Network (cells changed from 88 3 etation? [& Henry College VA Emory \*89.7 100 watts h.v; 29 m, Emory/ VA Virginie Beech 102.1 3000 h,v; 100 m, Stacy Tom Kwaitkowski C. Brody

WI Lake Geneva 96.1 3000 h.v. 100 m./ VI Christiansted WIVH \*90.1 500 b,v; 240 m, g BC McBride 181,1 19 watts h 104.1 19 watte h

Call Letters Assigned or Changed

AL Millbrook 97.1 WXEF CA Avalon 92.7 KRCI (KOUG) CA Paradize 96.7 KZZP (KNVR) CO Boulder 94.7 KHIH (KSSP), LMA with KOKS 104.3 Longmont CD Strasburg 1023 KAGM FL Cocos Beach 101.1 WVRI (WSTF), nm L Lecento "88.3 WDSP (WZQF) GA Augusta 103.1 WFXA"-FM" (WFXA-FM; AM gets new calls)

GA Broxton 103.7 WXEA GA Fort Gaines \*90.9 WJV/V GA Toppos 106,1 WLET-FM (WZLI), rk HI Hall'Imalle 105.5 KWYA HI Honolulu 105.1 KINE-FM (KHFX); AM is in

Kingsville TX; m [Haweiian music] ID McCall 101.1 KMGL-FM (KMCL) ID Sun Velley \*91.9 KWRV (KFTN), to be \$, a #90.1 WZJN

IN Brazil 97.7 WSDM-FM (WSDM) IN Brames 98.9 WYEZ (WM.IC) IN Verseilles 103.1 WXCH (WRIP) KY Eminance 105.7 WXLN"-FM" (WXLN-FM)

AM in Louisville gets new cells) KY Louisville 99.7 WOJX-FM (WOJX) MI Ann Arbor 102,9 WIDB-FM (WIDB; AM is in

Saline MI1 MI Gulliver 94.7 WCMM (WTIQ-FM) MN Waite Park 103.7 KLZZ (KXSS-FM), rm. MO Potosi 97.7 KHCR (KWVR) NE Nortolk \*88 9 KPND

NV Tonopah 92.7 KHWK (KPAH) NH Manchester \*91.7 WOCX NJ Villas 98.7 WFNN (WLQE), rm, "Fen 98.7" NY Catskill 98.5 WCTW (WQKZ)

NY Monticello 99.7 WXTM NY Morristown 102.9 WXED NY Rochester 97,8 WPXY-FM (WPXY)

DR Englowood 94.5 WZJX OH Wauseon 96,9 WZJU OR Com Bay 106.5 KYYG-FM (KYNG-FM) OR Newport 92.7 KCLM OR Seaside 94.7 KBRD (KOEM)

OR Toledo 100,7 KZUS-FM (KZUS) PA Harrisburg 87.3 WRVV (WHP-FM) PA Mountainton 97.1 WY RM (WOZM), nt. meno, parallel to WARM (AM) Scranton SC Georgetown 93.7 WSCA (WTUR)

SC Pawleys (signs 98,5 WDA) TN Germantown 94.1 (from 94.3) WODZ (WFGI), "Oldies 94," to 50000 k,v; 144 m. d-a (directional votenna)

TN Millington 98.1 WPYB (KPYB) TN Newport 92.9 WNPC-FM TN Rigley 84.1 WTRB-FM (WYHF)

TX Austin 95.5 K KMJ"-FM" (K KMJ-FM: AM in Rollianwood note new callel TX Brenham 106.1 KTTX (KWHI-FM), "KTex" TX Deller 105.3 KRRM (KRSR), "Young

Country 105.3" (and "FM-105") TX El Paso 94.7 KSET (KAMA-FM), k, new LMA with KPRR 102.1 El Paso [-Frog" TX Harlingen 94.5 KFRQ (KELT), k, "K-/

TX Luiling 94.7 KFGI (KTG), a; LMA with KKMJ 95.5 Austin and its AM TX New Brauntels \*89.9 KTSW (KQEJ) TX San Antonio \*88.3 KPAC (KYFS), S, t (moving from 90.9, which will be KYFS)

99.5 KISS"-FM" (KISS-FM; AM in Terrell Hills IFM: AM gets new calls) pets new cells) Terrall Hills 106.7 KMMX"-FM" (KMMX-/ TX Tyler 92.1 KGLD (KROZ), o, "Oldies 92.1" UT Roy 107.9 KZQQ-FM (KZQQ; AM is in West Valley Chy HT1

UT Salt Lake City 98.7 KCPX-FM (KCPX) VA Staunton 93.1 WKDW-FM (WSGM), k. AM-FM simulcost [WAPP 105.5 Berryville VA Strasburg 104.9 WBPP (WESI), a, parallel to/

WI Nekonsa 93.7 WXEC Wi Wannakee 105,1 WYZM (WIMN) MB Winnipeg 91.1 CKXL, \$, 233 m (58000 h,v),

I'The World ON Peterborough 101.5 CKWF(CFMP), op./

#### Facilities Changes Granted

AZ Buckeye KMJK 106.9 93 m (6000 h,v). AZ Oro Valley KRKN 97.5-35 m (3000 h,v) AR Jonesboro KJBR 101.9 323 m (100000 h,v) AR Little Rock KUAR \*89,1 100000 h,v; 388 m CA Beker (new) 101.5 4600 h.v: 393 m. CA Camerille KELF 95.9 248 m (430 h.v), B1 CA Los Angeles KKLA 99.5 30000 h,v; 204 m CA Morgan Hill KSDQ 96.1 1000 h,v (238 m) CA Dakdale KDJK 95.1 18000 h,v; 267 m, d-a CA Quincy KNLF 95.9 (from 103.1) CA Riverside KHTX 97.5 72000 h,v (479 m), o, "K-Hits 97.5 FM")

CA Santa Barbara KFAC \* BB. 7 12000 h,v; 264 m CA Veceville KUIC 95.3 590 h.v; 594 m FL Goulds WRT 0 98.3 429 m (100000 h.v), now "Radio Ritmo" (from "Radio El Sol")

FL Immokalee WCOD moving to 92.1 (from 98.3), off air because of WRTO going to a C FE Key Large WZMQ 103.9 60000 h,v; 71 m, C2, from Tovernier FL I "back to"

FL Marco WGUF 92.7 4100 h,v (100 m), h,/ GA Leesburg WEGC 103.7 3200 h,v (100 m) IL Rantoul WLTM 96.1 3800 h,v; 123 m IN Roaneke WOTX 84.1 (from 105.1) 2200 h,v;

IA Eddyville KKSt 101.5 49000 h.v: 152 m tA Kenkuk KDKX-FM 95.3 fremove from 96.3-unclear whether it will move to 96.3, or

if another station will take over the 96.3 spot), now "K Country 95.3"

A Muscatine KFMH 99.7 100000 h.v. 273 m. KY Barbourville WYWY-FM 96.1 (from 93.5) 25000 h,v (91 m), C3 Ih v (148 m) KY Greenup WLGC 105.7 (from 105.5) 11700/ LA Lessville KVVP 105.7 (from 105.5) 25000 h.v (100 m), C3 LA Natphitoches K280CK \*103.9 hes KVOP

FCC-FM

m. C3

\*89.1 Dry Prong on it (from KAJN 102.9 Crowley) LA Varnado WBDX-FM 92.9 (from 92.7) MA Concord WIQH \*88.3 7 m (10 h; applying

(or 100 w h) [98,7 2800 h,v; 150 m MI Grand Repids WXJI/ MN La Crescent K2818W \*88.1 (from K268-/ MN Springfield KLPR 94.7 (from 105.7) MD Ballwin KYMC \*89.7 120 h,v; 52 m, adds [h.v: 148 m, C3 MO Columbia KCMO 96.5 (from 96.7) 11000/

MO Moberly KZTT 105.5 25000 h,v; 94 m MO Warrenton KFAV 99.9 6000 h,v (166 m), C3 NH Keens WKNE-FM 103,7 12200 h,v; 302 m NJ Estontown WHTG-FM 106.3 3900 h.v (71 m) NJ Dakhuret W244AS 92.7 has WDBM-FM 92.7 Toms River (from WHTZ 100.3 Newark)

NY Middletown WOSR \*91.7 1890 h,v; 192 m NY Stillwater WSSV 101.3 3700 h,v; 126 m DH Gallon WGLX 102.3 3500 h.v.: 131 m DR Klamath Falls KTFC \*89.5 182 m /210 h vi OR Milton Freewater KLUB 97.9 5100 h,v; 216

PA Nemicoke WY 05 92.1 760 h.v.: 202 m. PA Tropa WPHD 94.7 820 h.v: 273 m RIMiddletown WOTB 108.3 8000 h.y; 92 in, d-a SC Batesburg WKWQ 95.3 8000 b.v (81 m) SC Ravenel WMGL 101.7 8500 b.v: 129 m SD Pierre KLXS 95.3 50000 h.v (91 m), G2 SD Volue KKQQ 102.5 (from 102.3) 25000 h.v.

74 m, C3 I(100 m), C3 TN Waynesbern WTNR-FM 94.9 25000 h,v/ TX Canyon KAKS-FM 107,9 418 m (100000) [87 m (3000 h,v) TX Corpus Christi KBSD 54.7/

VA Morfolk WNSB \*81.1 18000 h,v; 91 m,/ WA Wenstches KSSY 104.9 6100 h,y; 403 m WA Yakima K 201AS \*88.1 (from K 208BM 89.5; KYSC 88,5 not to be build?)

WV Buckhannon W8TQ 93.5 2880 h.v: 164/ WV Revenswood WRZZ 106, 1 1840 h,v (184 m) BC Pemberton CK RW-6 106,7 4 wattsh,v (16 m) ON Oheweken (new) 100.3 to be nonprofit, but commercial, with eight hours a week of

native-language material BN Tijuana XHTIM 91.7 (from 103.3), but temporarily on 91.5. I am second-guessing they will move to 91.7, which KUSC's chief engineer agrees will be a "workable solution."

#### Stereo-or to be Stereo

AZ Cottonwood KVRD-EM 105.7, "Gountry

FL Miami WONA \*88.9 GA Sylvania WZBX 108.5 GA Valdosta WWRQ 107.7, rp, "Q-107"

KY Madisproville WTT1. FM 106.9 LA New Iberia KKZN 93.7 rp. "Z-93.7." 10 with Lafavetta parallel to KVIII. FM 185.9

Onalouses-Lafavette MN Browerville KXDL 99.7 MN Rushford KWNO-FM 99.3

MO Sparta KLTO 96.5, k, LMA with KKHT 98.7 Springlield and its AM; "Hot Country 98.5." Not "off the sic," as shown last month NE Lincoln KFGE 105.3

NM Roswell KVNB 104.7 NY Revena WRAV 94.5

OR Harbeck-Fruitdale KAJO-FM 98.3 PA Berwick WKAB 103.5, p, SMN Pure, "B-193," A "surprisingly good signal."

TN Harrogate WXJB 96.5 TX Ameritto KAEZ 106.7, no commercials and "Very week."

TX Floresville KWCB \*89.7 VA Narrows WZFM 101.3 Monophenic

CA Fallbrook KBAX, e, and Ventura KAXX

197.1, e, both mono, as is KMAX Arcadia, getting the KMAX signal via 7.5-kHz phone fines. "The FCC does not care whether a station actually sends out a high fidelity signal-only that it is capable of it, and besides it has done away with the annual pronf-of-performance tests for stations. IN Sullivan WND I-FM 35.3, "Has been known to

simulast Terre Haute SIWS for un to 10 minutes. Has an errater schedule. IA Des Moines KDPS \*88.1, KUCB \*89.3 IA West Des Moines KWDM \*88.9

Format Changes Formats are the same as in the "FM Atlas" AL Enterprise WOJR 96.9 k AL Fairhope WZEW 92.1 rp AL Florence WXFL 96.1 rm. \$1 tereo AL Hartselle WYAM 185.1 r. "City FM" AL Union Springs WSFU 94.1 s AZ Phoentx KKLT 98.7 nm, "The Light One" AZ Prescott Valley XIHX 106.7 r, "Kicks 106."

and "IDs their translators on the hour" AZ Tucson KUAZ \*B9.1 j, "Z-89," to simulcast KUAT AM

AR Bella Vista KBVA 106.5 m, odult/ AR Glenwood KWXE 104.5k, \$, "Quixie," parallel to KWXI 670

AR Texarkana KTWN-FM 107.1 r, "Ster 107, Ail Hit Andio" (from "107 K-Twin" CA La Quinta KBZT 96.7 k, Unistar Country CA Secramento KOPT 100.5 p

FL Chiefland WLOH-FM 97.3 k FL Coral Gables WHOT 106.1 r FL La Balla WKZY 92.5 Spanish, I FL Naples WBFT \*89.5 r, simulcast with WJYO

Fort Myers, "donno if stereo" FL Pensecole WMEZ 94.1 rm, WJLQ 100.7 rm FL Port Charlotte WEEJ 100.1 r. "progressive MDR," but "I'd just call it r" GA Rome WKCX 97.7 r, not cm

IN Austin WJAA 96.3 rp, "Radio 96.3" IN Mappanee WLRX 95.7 mr, S, ID with Goshen and Elkhart (not with Warraw any more); "is taking a bite out of WEFM 95.9 [Michigan

City's | coverage area' IN Washington WAMW-FM 107.9 mc IA Des Moines KLYF 100.3 rm. Format 41 nites IA lows City KKRQ 100.7 o, "Oldies 160.7" IA Jefferson KISN 98 9 m

IA Pella KFMG 103.3 pj, "a combination of rock, inzz and blues' KY Burnside WJDJ 93.9 o. LMA with WSEK

97.1 Somerset (not "off sir") KY Louisville WZKS 103.9 k, LMA with WDJX-FM 99.7 and AM KY Williamstown WNKR 106.5 k

LA Bunkle KEZP 104.3 mr, "EZ-104," ID with flet to WADU B30 Norce Alexandria LA Reserve-Laplace WADU-FM 34.9 b. paral-/ ME Caribon WCXU 97.7 rm

ME Lewiston WTHT 107.5 o, "Oldies 107.5," losing "Thunder"

ME Thomaston WAV X 106.9 to be c, 24 hours, in Agril, replacing the format WMCM 183.3 Rockland had ["Power 107" MD Federalsburg WOMR 107.1 rs, still/ MA Pittsfield WT8R "85.7 te, back on air with

talk most weekday hours, ethnic weekends. A new amplifier has brought it back to legal power (it was running on lest its exciter). A financial commitment from the school board and the Lichtenstein Foundation, as well as underwriting efforts, will help to assure its financial success. No longer just a "disc

jacksy station." MI Mount Clemens WXCO 102.7 a, "Z-Rack" MI Munisine WHCH 9B.3 k

MN Ortonville KCGN 101.5 g, not gr MS Oxford WOXD 95.5 a MD Canton KBXB 102.3 o, still "B-102"

MO Lexington KCFM 107.3 r, LMA with KXXR 106.5 Liberty-KFKF 94.1 Kansas City KS,

No call letters changes for 106.5 and 107.5 yet. "KXXR already had an LMA with station KIDZ 1510 kHz, which has been dropped. KIDZ is now off the air. On a good tuner there's little degradation, but middtown and south Kensas City are blanketed with RF-on an overload-prone tuner, KCFM can't cut through the intermed."

NH Conway WMWV 93.5 rm, not "off the air" NJ Long Brench WZVU 107.1 o, "Sesview 107" NJ Trenton WPST 97.5 rs

MY Caps Vincent WKGG 102.7 rm, parallel to WTOJ 103.1 Carthage NY, "Lite Rock 103," (D with Kingston ON; is it \$1 tereo)?

NY New York WHCR \*90.3 js and "variety," [102.5," no multi-city ID NC Hendersonville WMY1 102.5 rm, "My/ NC Sanford WFJA 105.5 a NO Minot KIZZ 93.7 tm, not "off the air"

KBQQ 99.9 r. Unis, Adult Rock OH Aits WONB "94.9 jr, S, "Bock 95" OH Clyde WNCG 100.9 o OK Clinton KCLI 95.5 (but still on 95.3) k

KSWR 108.9 k. "Star 107 FM" OK Enid KOFM 103.1 r, top 40 (from b) OK Lindsey KBLP 105.1 k

DK McAlester KMCO 101.3 k OR Grants Pass KYJC-FM 96.9 k, "K-97" PA Tellord WBMH \*91.7 g (from c). "A translator on 107.9 in Philiv? Wouldn't that

Interfere with WHHS 107.9 Havertown PA? I. haven't heard WHHS in a while, but I helieve they were switched from 89.3 to 107.9 recently." PA Tunkhannock WYMK 107.7 rp, Unister Niche

["Classy FM") SC Marion WKSY 100.5 k. "Klx" (from/ SC Screnton WSON 102.9 rm TN Dickson WQZQ-FM 102.5 b. JSA Easy Listening, "Super Audio" (strict), "I have yet

to hear a lenet ID, even on the hour." Entir simulcast with WYCO 102.9 Shalbyville, TX Clarksyllle KCBZ 98.5 o, "Oldies 98.5" TX Tulio KJMX 104.9 rm, "Mix 104.9"

VA Arlington WAVA 105.1 g, "following ownership transfer from Emmis to Salem." VA Barryville WAPP 105.5 o, parallel to WBIIII 104.8 Strasburg

WA Comes KMUZ 94.7 m, to team with now-silent KKGR 1230 Gresham OR. WI Minocqua WMQA-FM 95.9 mr

#### On Air (Selected)

AZ Flagstaff K278CF: "Heard into the fringes of Kingman, many, many miles away!" FL Summerland Key WPIK 102.9, back on with/ IL Morris WCFL 104.7, with the FCC

modifying its directional antenne permit IN Longostes WKMD 94.3 but "does not ID. In fact, it doesn't usually have announcers, Dixers beware! Their format varies as to what's loaded in the CD changer. . . No ads

gither " LA Kentwood WXLT (baying moved from McComb MSJ 94.1 is "applying for a transmitter location near Clinton LA. NE of Saton Rouge, BR will be saturated,

NY Middletown WOSB \*91.7, \$, "WAMC Network," with only a top-of-hour ID with WAMC's other stations

NY New York city area-"WNCR" 91.9. \$. "Nasseu County Radio," (518) 285-0856; "WFUN" 95.1 Brooklyn area, (718) 232-3166. Both pirates PA Easton WJRH \*90.5, following school break,

but still not on 104.9 TN NashvilleW271AB 102.1, "strong signal"

#### Off Air, or Not Yet On

AZ Sadona KSED 107.5. 'They lost rights to their aptenna site' AZ Willcax KWCX 98.3 and its AM AR Barling KOLX 94.5

AR England KLRA-FM 96.5 AR Gurdon KGAP 92,7 "still off the air" AR Stamps KZHE 100.5, still on 100.9 CA Grover City KWCD 107.3, "CD-107"

FL Gretna WGWD 93.3, still on 100.7

Ft. Panama City WPFM 107.9 "temperarily" FI. Tallahassee W249RA 97.7 GA Herlem WHEY 95.1

GA Martinez WMTZ 93.8, still on 94.3 6A McDonough WMVV \*90.7. "The one-bay antenna is still downtown. The church that owns it wants to move everything to a site north-incressed gower, etc.

ID Mauntain Home KLVJ-FM 99.1 and its AM IA Lamoni KLAL 97,7 DK Sallisaw KKID-FM 95.9 and its AM

PA Mount Carmel WXMH 99.7. "Their lease agreement with WISL 1480 Shamokin PA fell spart, as did their previous LMA with WHTO 03.9 Muney PA.

PA Salladasburg WKHL-FM 95.5, still off PA Scrinton WUSB \*99.5

SC Marion WWPD 94.3 SC Moncks Corner WJY 0 105.5

TN Nashville WFSK \*88.1 "still off. Suspect this

W234AB 94.7-"just WGSO 94.7 Cookeville. which has a pretty good signal here and is going to give this translator a run for its

TX Banders KHLC 98.3 TX Borger KDXR 104,3

TX Canadian KRBG 94.9 TX Claude KARX 95.7

TX Harnford KMAZ 1913 5 TX Lubbnek KE IS 106 5

UT Kensh KCKK 101.1 Deletions

MD Macon KZOX 99.9, unbuilt CP

NV Jaan K232CP 94 3 OH North Canton W22BAD \*91,9; WFRJ said they never used it'

OR McMinnville K224BW \*92.7 PA Reading WBYN-1 107.5

SCS Changes, 67, 92, 78.67 kHz Symbols are as in the "FM Atlas"

DC Washington WJZE 100.3 †E, 67 (from †R) OH Akron WZIP \*88.1 fT, 67, moved from [67; had †X) WKS11 \*89 7 OH Canton WTOF BB. 1 no SCS (carrier poly./

OH Claveland WCPN \*90.3 no SCS (had †T. 67) OH Kent WKSU \*89.7 no SCS (had fT, 67) OH Salam WOXX 105.1 no SCS (carrier only, 67;

had this 17M; retains †X, 82) DH Youngstown WKBN-FM 98.9 no 67 (had/

Secondary Audio Program underutilized on TV. MacNeil/Lehrer Newshour has a Spanish translation, plus there is some foreign language use of it on commercial TV in Los Angeles.

The Music 4 system, said to be "a failure. The antipment was too expensive, lacked portability, and the sound was not that areas." Only in Los Angeles and Atlanta has it been used, and Atlanta is believed to be the only market where it is currently employed.

'The 1992 FM Atles is great-enother job well done!" "The FM Atles certainly is up-to-date. Thanks again for modifying the radio and send Catalog No. 12 when it comes out."

"Jut wanted to thank you for the great radio (Gran Prix) with mods, It's nice not to have to liston to commercials any morel"

#### FMistakes FM Atlas-14

FL Jacksonville p. 140 cells for the booster are WOKV-EM1 (not WIDL-EM1) F L Tallahassee \*91.5 is WFSQ (not WFSU), p. 30 GA West Point is shown as being in AL, p. 33 map IA Iowa City KRNA map p. 48 should show its fremiency as 94. T KS Ogden KOLA 183.5 (movine from 103.9);

Music 4 SCSystem Not Worth DXing firt on p. 181 (103.5) as 50000 h.y; 93 m MA Waltham WCRB 102.6 SCS data covers on

coverage (52 km), p. 115 OR Corvellis KEJO 101.5 date miseligned, p. 176

See Also March VUD For

AL Fnirhope WZEW 92,1 rp, Falconer, p. 31 CA Julian KBNN 100.1 "Kabin 100.1 FM," ID with Rumone; is it Sitereo)? Lobel, p. 25 Fi. Coral Gables WHOT 105.1 r, "Station News,"

FL Holmes Beach WISP 987.7 "Wispy 98.7"; is it Sitereol 7 "Station News," p. 33 FL Pansacole WMEZ 94.1 apparent formet

change to rm, Falconar, p. 31 GA Gordon WNEX-FM 107.1 187-X, "Station News," p. 33

IA Jefferson KLSN 98.9 m, not b, Hawk, p. 30 KS Great Band KZXL 107.9 Z-108 (from "XL-168"}, Hawk, p. 30 KS Closen KQLA 103.9 (moving to 103.5); list

on p. 181 FM Atlas-14, to be 50000 h,v h,v; 93 m. Hawk, p. 30 MN Cambridge WLOL now 105.3, having moved

from 105.5, "Station News," p. 33 MN Thief River Falls KSRD \*90.1 not "Theif River Falls," p. 12. Let's all strive for more accurate spellings in the VUO!

MO Columbia KFMZ 98.3 ID with Jefferson City, Falconer, p. 31 NY Auburn WPCX 106.9 Country 106.9 (frum

"Picks 106"), Shaften, p. 33 NY Cape Vincent WKGG 102.7 Lite Rock 103, ID with Kingston ON: is it \$[ tereo] 7 "Station [-84"], Hell, p. 34 News," p. 31 NY Dansville WACZ 93.9 Lits 84 (from "Z-/ NY Jamestown WNJA \*89.7 is not a translator,

but a full power relayer, Ross, p. 12 QH Chillicothe WFCB 94,3 FCB-94 (from "B-94 FM"), Half, p. 34 OK Keichum KGND 107.5 K-Brand, Hawk./

PA Telford WBMR \*91.7 apparent format change to g from c, Detting, p. 35 N L Sabinas Hidelgo XHSA8 89.5 mono, assumed

temporary, Hawk, p. 30 Thanks, Greg Coniglio, "Column Notes," for the nice FM Atles plug, p. 30, and to the club for the nice ad, Feb., Inside back cover.

NonIDs In Use

Mentioned usually without call letters; "strict" if a station only uses call letters once per hour as required by the FCC (at or near tap of hour) AR Ashdown KARQ 92,1 Q-92 All Hit Country (from "Country 92")

AR Camden KCAC \*89.5 KC-89: is it \$7 KWEH 97.1 uses calls of KAMD 910 which it simulcasts (except at top of hour; was "FM-97" [try 105

AR Crossett KAGN-FM 104.9 Super Coun-/ AR El Dorado KBLT 95.5 Lite 96 AR Hot Springs KBMB 96.7 KB-96 AR Malvern KISI 101,6 Sunny 101,6 AR Warren KWRF-FM 105.5 uses calls, not

"Magic 106" ["Bright 99-5") DE Wilmington WJB R-FM 99.5 Mix 99-5 (from/ FL Fort Lauderdole WAXY 105.9 Wexy 108 (beck to, fram "Mix 105.9")

FL Homestead WXDJ 95.7 Radio El Sol (from "Radio Ritmo," which goes to 98.3-see 'Facilities Granted" above, ending LMA) Ft Miami WOBA-FM 107.5 FM 107.5 (in

Spanish: from "Suger Coo" FL Sarasota WHPT 102.5 The Point GA Gordon WNFX-FM 107.1 107.X IL Mecomb WJEO 102.7 Rock 103, ID with

Gelesburg IL Marshall WMMC 105.9 Oldies 108 (from "Cool 108"), (D with Terre Haute (1N)-Charleston

IN Elkhart WLTA 100.7 Lite FM IN La Porte WEDE 98.7 The Engle. COE stands for Ken Coe, owner, "Their AM, WLDI, is

simulcasting the FM" temporarily

IN Greenfield WZPL 99.5 ZPL IN Spencer WSKT 92.7 KT-93 (not "Hot Kickin" Country"), ID with Bloomington, but not with Ellettsville any more IN VincennerWVUB \*91.1 Easy 91 (from/ IA Ames KEZT 104.1 Light 104 IA Ankeny KMXD 106.3 Soft Mix 106.3

IA Fairfield KITK 95.9 Kick 96, ID with Ottumws, "but their signal is bad in some areas (of Uthumwa) and they've quit doing promotions here" ("Country 92")
IA Delwein KOEL-FM 92.3 High Country (from) IA Oskaloosa KBDE-FM 104.9 Country Connec-Hon. "They're trying to be more regional." KY Henderson WKDO 99.5 KOD 99.5 (from "KO-99") ling "Fun Radio"

LA Alexandria KQID 93.1 still 93-QID, not us-/ LA Benton-Shreveport KLXL 92.1 Oldies 92.1 FM (from "Eool 92.1") LA Dubech-Buston KPCH 87.7 The Peach LA Shreveport KWKH-FM 94.6 94 Country

(from "Radia Ranch") MD Saltimore WBSB 104.3 Variety 104.3 (from "B. 104"), but still a ! "hat A C" MN Uniuth WAVC 105.1 FM-105 (not strict)

PA DivphantWZZV 95.7 Z-95: Is it \$7 TX Amerillo KATP 101.9 Rock 102, The Cot TX Commerce KETR \*88.9 The Mint UT Provo KZDL 96.1 X-98 (from "K-96.1") PO Montreal CJFM 95.9 Mix 96 (from "FM 96")

Multi-City tDs in Use

AR Maumelle KOLL 94.9 still (Ding as Pine Bluff-Little Rock [100.1 FM\* CA Julian KBNN 100, I with Ramona, "Kabin/ CT Norwalk WEFX 95.9 with Greenwich, "95.9 The Fox" (Bethany MO IA Deceola KJJC 106.9 with Des Maines-/

LA Bestrop KTRY-Fm 94.3 with Monroe-West Monroe, "Touch 94.3" KRVV 100.1 with Monroe, "The River 100.1"

AM Happenings Most Likely Caused by FM (Selected)

AL Lexington WKNI 620 silent CA Fort Bragg KDAC 1230 tilent CA Los Angeles KMPC 710, still owned by Gene Autrey, goes all sports by and of April, no MOR CA Santa Monica KBLA 1580 dumps business talk in favor of relay of monophonic KWIZ-FM 96.7 Sente Ana. "The business format lasted less than one year on KBLA." DC Weshington WGMS (changing to WTEM) 576, dropping classical to be all sports to only on

WEMS-FM): WMAL 630 Inses Redskins, IFCC HI Kailus KLEI 1130 off air, calls deleted by/ KY Inez WFJT 1590 off air, deleted by FGC ME Presque Isle WKZX 950 off sir, FCC defetion MD Brunswick WTRI 1520 silent MII Leonardtown WKIK 1370 silent NJ Oakland WVNJ 1169 "still not on air!" NJ Weshington WSRR 1580, silent for "reveral years, has now vacated the premises. The tower is still standing, but the equipment and studios are

gone. Rumor is the station (i.e., tower and license) is for sale, asking \$75,000." FM Rulemakings Proposed

First date is deadline for filing comments at the FCC; second data is for replies. Stations affected, If any, are listed.

AR Dumas 106,903 for 107,1A, KXFE, Apr. 6, 21 AR Marianna 105.3A for 106.9A, with Dumas CA Fort Bragg 95,381 for A, KOZT, Apr. 19, 27 CA Quincy 102.1A for C2, KONC, with Shingle Springs IFM, Apr. 3, 20 CA Shingle Springs 101.98 for B1, KFIA-/ HI Poipu 95.9A, Mar. 30, Apr. 14 KY London 92.3C3 for 92.5A, WY GE, Apr. 6,/ KY Hazard 92.5A for 104.7A, WJMD, with I with Landon KY Hyden 104.7A for 9z.3A, WZ00,/73.03 SATELLITE NEVIS George W. Jensen Baltimore, MD 21206-4220

Another 30 days has passed and time for another run down of what's changed or not in the satellite world. What's interesting (or not so interesting) is that there is a lot of petty movement of services - nothing of major consequences at this time. But that may soon change. Video Shopping Channel VCC is on Spacenet 3 XPDR 16 MSG Network was noted recently on F4 XPDR 15 Probably a one-shot affair - Sky Television from England was noted in PAL color on Galaxy 2 XPDR 14 with what appeared to be a stock-holders type of meeting program

The Arab American Network is on F2 XPDR 1 with varied Arabic Programming - some locally produced - others from Arabic Nations.

Sat. Market USA noted on W5 XPDR 15.

On C5 XPDR 18 some weak video and sound noted, but what it was couldn't be identified. this is very unusual inthat I believe the even transponders are not. CONUS but Alaska beamed and, at this location, shouldn't be visible at all.

CNBC on F3 XPDR 6 is now VC2 encoded CMT (Country Music Television) on G1 XPDT 13 in now VC2 Also on Gl XPDR 5 is the most varied array of services I've seen in a long time. Everybody has been using this from ESPN/Disney/Shop-At-Home/USA etc. for various promotional programming to whatever.

Morelos 1 - I've noted flickers of video on XPDR's 21 and 23 and someone in MAC coding on 15. On Morelos 1 - a flicker on 19

New on Intelsat 53W - LS85 - Ch 13 - Buenos Aires, Argentina on XPDR 14H - TV Rio de la Plata - sometimes in the clear - others in MAC. This is a powerhouse signal - as if the beam was into my back yard. It causes signal degeneration of the BBC/ITV London feed

If Galaxy 5 was successfully launched - look for major changes in the very near future.

That's all for now - hope to see you in 30. 17315

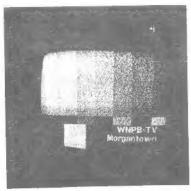
12284 Nice Road

Akron XV (4001-9-29)

william rakbers - Dixon filinois starts off this months installment of Photo-Equipment: 1466 Senith baw tube type received model oh (4N22, modified Zenfilt 171,-2225 detent tuner. Robn tower - Channel Master 1110 at 41'. Robn crankup tower - Channel Master 7 foot dish with RDX Labs EM900 (round) preamp at  $52^\circ$  and  $125^\circ$  of Jercold CAC-11 moax.



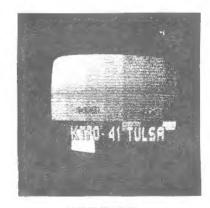
CITY2-31 Woodstock, Ontario 442 mile tropo seen December 31 1991 at 0220 CST



WNPB-24 Morgantown West Virginia 508 mile tropo seen December 31 1991 at 0455 CST



КТШШ-11 Topeka Kansas 375 mile tropo seen January 4 1992 at sign off "PATE



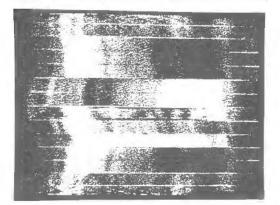
KTFO-41 Tulas Oklahoma 519 mile tropo seen January 4 1992 at 0450 CST "new call"

PHOTO-NEWS

PAGE TWO

**APRIL 1992** 

Next is Joop J. Prosee - Spanbrock Holland.



"The Iranian FuBK Testcard via F2 on Chl.E2. Without clock(?), ERP power unknown. Offset BP = +10.4kHz. Distance estimated 4600km"

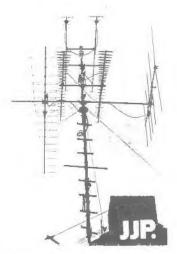


"Russian S/off stide, received via Es on Chl. Rt. The slide reads in Russian: "Don't forget to switch off your TV set."

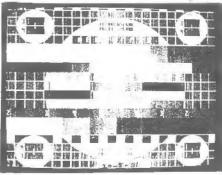
From your editor; remember to include ALL information about the photos you send in. This should include: station call or name, the city of license. province or state; country if not Canada or United States. Distance in miles or kilometers but state which one you used. Mode of propagation. Date of photo (reception) and if you wish the time and zone used. This will help us all understand and enjoy the photos vou've taken the time to send in.

More from Bill & Joop next time,

DAVE



"my highest, DX-mast with a topheight of 15m (50 feet) with on top two stacked Yagi's for Chis E55-E70. Going downwards, two stacked TeldeA/PHILIPS TV21 65/40MULTIWING UHF-antennae for Chis E21-E65. Normally Luse four stacked MULTIMINGS but two are to be overhauled, Below left, TELECASTER 30818 Bano-3 antenna for Chis. E5-E12(174-230Mhz) this is a LogPerYagi with 8 1-Match dipoles 1 Yagi reflector and 9 Yagi directors. Below right, vertical mounted LogPerYagi for 47-100Mbz with 4LogPer dipoles and one yagi director."



"Russian LIE!! taetcard via Es 1X Laningrad (now St. Petersburg). 10 / TEHNHIPAA in top ₹40kw ERP, offset Zaro, distance 1710km.

H YT CT MA RI NY PA NI OH MI NIL WI MNJANESD ND, MT, WY, ID, WA, OR, AK, Canada

OCTOBER 1991 DEADLINE: The 5th DLOG CUTOFF: 2 months from when mailed

Keep an eye out for e-stip econ! Do not write off the chance of skip in April; it can and has happend. The best April opening of the past 10 years occurred on April 27, 1987. 5 DXers reported 45 different loggings to the VUD on that day. Other openings occurred on April 25, 1986, April 30 & 7 in 1984, April 28, 1987, and April 21, 1982. The past lew years have seen very little April Es activity, so maybe we are overdue! More reported on the big December 28 opening in the Northeast, plus there were some good openings the last week of January and the first week of February. No off season e-stip has been reported this month, so things have quieted down in that regard. Let's here from you!...

ROGER WINSDOR - 706 LONG RUN - VALPARAISO, INDIANA 46383 (219) 759-3131

DECEMBER 1991 DX CST

21 Tr 1958 WLRX 95.7 IN Nappanee, local basketball and spot. 2015 WPBK 97.5 MI Whitehall, k, claiming #1 Muskegon Country 23 GW



2358 WXAV 88.3 IL Chicago, sign off after blues program

I guess a re-intro is in order since it has been many years since I have last reported to WIFDA (Welcome back Roger. Hope to see you report again!-gc). I got my first start back in the early days of WIFDA with Morrie, Pete, and John Zondlo. HQ was in Milwaukee then. I used to DX with a Kenwood tuner which was destroyed in our house fire in 1986. I am 51, married with 4 grown girls and a 5 year old son which takes up much of my time when I am home. I work 14 hour days so have little free time, especially DX takes a back seat. But I still do pick up new things as I browse the dial. I use a GE Superadio with the 110 filter which Bill N. altered for me this summer in Dunkirk. A tremendous difference!! I use a dipole hand held or standing up, a remarkable little stick. Totals at 1042 with 36 states, 3 provinces and I Mexican. The 88.3 logging was made possible only because WDSO in Chesterson has some our to weak dead carrier that ruins 88.3. When WDSO is off the air for the summer or Christmas break it disappears. I never have called them up to complain. I completely missed the 12/28 ducting. If conditions are up I would apprecialte a call if on weekends. None collect please. Good DX, Roger

WILLIAM R, HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON LEY 417 (EST)

Equipment: modified JVC R-X330V w/indoor dipoles

Johnstown-Altoona

DECEMBER 1991 28 IR 1845 CBON21 104.5 ON Gogams (FF. 15 db) 29 TR 0105 CBON17 95.1 DN North Bay 185 (FF // CBON21, 10 db) 0109 CKLP 103.3 ON Parry Sound (Music Radio, 10 db) 0109 CJR0 92.7 ON Sudbury Ŧ (Rock Radio Network, 10 db) JANUARY 1992 2359 WIYO 99.1 PA Ebensburg-225

FEBRUARY 1992

5 IR
00000 WDBA 107.3 PA Du Bois 175
0202 WLHI 103.9 PA Kane-Warren- 160
(u/CBBP) Bradford
0322 CKAI 101.9 ON North Bay (k) I
6 GW
0346 <WRDI> 95.1 NY S Bristol-Roch 133
(m)x-WSZH, 'Rocket-95', 15 db)



1700 Rand Bidg., Buffalo, NY 14203 (716) 856-3550

STATION NEWS: KPYR 98.1 AR has changed city of license to Millington, TN, and subsequently changes calls to WPYR. They want to move closer to Memphis I guess. WDXZ 104.5 Mr. Pleasant-Charleston, SC is back on the sir, with a hot a/c format and "Mix 104.5" slogan. In Seattle KUBE 93.3 stays top 40 but goes more to a dance approach. In Wyoming KKAZ 100.7 has gone effect, same fate for KWIC 107.9 Beammont, Texas. In Florida, WSTF 101.1 Cocca Beach is now WVRI, and "Variety 101.1" same a/c format though. In Lincoln, Neb. KFGE 105.3 is on the sir, with Unistar country, and a "Froggy 105.3" slogan. Thanks Mike Hawk. WZRH 106.1 Picayune-New Orleans is moving more to a mainstream album rock format. In Houston, KREE 104.1 adds a modern rock forwer wenings. WSFU in Montgomery is reportedly on the sir with a "Power 94" slogan. WZIO 94.9 South Boston, Ohio is on the sir with country, "Z94", WRRL in Rainelle, West Virginia moved to 95.3, and is mono.

NORTHERN FM DX

APRIL 1892

DAVE NIEMAN-12284 NICE RD-AKRON NY 14001-9529

Equipment: Carver 1x-11 bina is filter medicated, Channel Master Stereo Probe 9 at 26' 13.18/5629' above ground level. Alliance HD-73 couter and RG-11 cnax. New loggings are <u>undermined</u>.

New propagation mond <u>uluqui</u>. New call [KKKK].

JANUARY 1959 DX			DECEMBE
1 Groundwave 8 b	roppscatter		31 trope
(Irom Buffalo)			0832 WPF
	auffalo, ID, m mano	20	JANLARY
0021 WHILE 154,1 NV	Buffalo, call k mono	$J_{\rm c}$	18 trope
1000 UBAY 92.9 NY	Buffald, ID, m mono	16	1528 URV
1917 WITH 93.3 NV	Jamestown, cell, m meno	65	23 trope
1059 WINE 103.3 NY	Buffalo, 10/1080 AM, r mos	10 14	1447 1012
5 trupo & Groundy	ave		
0759 Weil 97,1 MT	Detroit, call, m mores	230	28 Meter
0901 CERB 99,9 ON	Toronto, call, m mone	20	0854 (WX
1000 URRE 107.7 NV	Wethersfield, ID/URRC, WRF	RD.	
LIRRA, LIR	SE & LEXR. c maria	37	1901 URG
1200 CBL 99.1 EN	Toronto, ID, c mono	70	FEBRUAR
1401 CHFT 98,1 DN	Toronto, ID. mc mono	-20	16 Meter
1637 CKLE 93.9 DN	Cishawa, celt//1350AM, m	71	1025 WIA
2200 WHDL 95.7 NY	Allegheny, s/off, c mono	65	
2201 WERC 99.9 PA	Erie, call, m mono	90	17 tropo
H LERBR			0814 WH
BUU WXYZ TULT MI	Detroit, ID//12/BAM. r moi	00210	

DECEMBER 1991 DX	
31 tropo 0832 WPHN 90,5 MT Gaylord, ID. g\$ JANLARY 1992 DX	137
18 troposcatter	
1528 WRVL 88.3 VALynchburg, call, gS	384)
23 troposcatter	
1447 WIZA 106.7 VT Vergennes, call "THE WIZARO", ops	277
28 Meteor & tropo scatter	
0854 (WXXL) 106.7 Ft Leesburg, "Xt~106.7" ex-WHLV, prev. E-skip	995
R901 WRQX 107.3 DCWashington, "MIX-307.3" FEBRUARY 1992 DX	292
16 Meteorscatter	
1025 WIAI 99.1 IL Danville, call	
female voice "UIAL"	509
17 troposcatter	
	371

I sent for and roceived the distance printout from Fred Nordquist (see Feb. 1992 VLD NFMDX column middle of page 26). I got one for Akron and Rock City DX locations, it will make looking up stations distances much easier. Fred didn't eak for but I sent along a S.A.S.E. and the \$2.00 each with my order. Seen a drawing of a simple antenna phase box designed by ETVDX editor Bill Nienejadly.

I have to give It a try. Dave (Dave, I guess these are in violation of the log cutoff policy, hi. GC)

MICHAEL HAWK (MOOSY) - 10212 P ST - DMAHA, NE 68127-2130 (402)592-1186

Equipment: Ranwood KT-815; Archer 6 element before 2/8, Antennacraft FM-10 after 2/15.

FRERUARY 1992 DK 4 GM(CST)	4 Tr 2202 KYSM 103.5 MN Mankato
2000 RPGE 105.3 NE Lincoln, \$, k format, 'Lincoln's Proggy 105.3', or 'Hot Country'.	2206 KEEY 102.1 MN St Paul, \$, K-102 2230 KWOA 95.1 MN Worthington
2200 KRSZ 106.1 Th Shenandoah, NEW CL's, ex KMA-FM; CNN news, Oldies format.	
'The New B-106'.	1221 WJOD 107.5 IL Galena, k 1223 <u>KRDI</u> 100.5 IA Decorah, \$, AC/AOR
2000 KXXR 106.5 MO Liberty, now k; ID as 'The New CJ 106.5'; prechably will change call letters	1227 KPMH 99.7 IA Muscatine, \$ 1230 WCOW 97.1 WI Sparta, \$, WI#2 2123 WZOK 97.5 II. Rockford, 97-20K

The 2/5 tropo was nice to come home to. I'm sure it was much better earlier in the morning, but we had school. I would have missed it all together if we hadn't gotten out at noon. The KFUE intro was interesting. They had been testing for a few weeks occasionally in the afternoon with a unistar satelite feed. Early February they began testing 24 hours a day with a recording of outdoor noises (crickets, frogs, birds, etc.), then switched to regular broadcasts of country music a few days later. I also ID'ed an unID station from the 1/6 E-Scip. XHMS-102.9 from Monterrey increased my total from that opening to 14, with 8 Mexican's, 5 from Monterrey. Reading about Bill Nienajadly's phasing system gave me an idea. Why not try coupling an outdoor beam with one of those indoor antennas with the tuning knobs, like the kind they sell at Radio Shack. That would have the capacitor built in already, and be a lot less hassle. I may try experimenting with this down the road, but renewing my VUD subscription comes first! Also, if there are any hams out there that want to set up a schedule with me on 10, 15, or 40 meters, drop me a line. I just upgraded my license to advanced. I finally got the FM-10 up on 2/16. It has a definite edge over the 6 element I was using. I have noticed strange tones on various frequencies across the band. I know that it's nothing in our house. It's just like a carrier on 106.6, 102.15, and 102.95. It is strong enough to block most DK on the frequencies near to them. Anyone who has had anything similar happen, I'd appreciate a letter. By the time you read this, the skip season will be right around the corner! 73's

JEFF FALCONER - BOX 63 - CLINTON, ONTARIO CANADA NOM 1L0 Equipment: Magnum Dynasab FT-101A, Probe 9 at 27 feet with rotor, RG11 feedline, Mag. 205 amp.

DECEMBER 1991 DX 28 Tr-super opening, first time I have ever seen a duct to the north! 99.1 MI Iron River, k\$, ID 2050 CBON28 91.9 ON Chapleau, CBC French Mono 2054 CBON24 90.7 ON Kepuskasing, same 402 2058 CBLJ 88.3 ON Wawa, CBC EE mono343 2100 CBEB 89.7 ON Maniyouwadge, CBC English Mono 2102 CBON27 90.7 ON Wawa, CBC FF Mono, strange echo effect with antenna

between this and CBON24 2111 CBLG 89.1 ON Geraldton, CBC EE mno 491

2112 CBON22 93.7 ON Gerlection CBC French mono 2120 CBON20 89.3 ON Thunder Bay,same 499 2125 CBON25 97.1 ON Timmins, same 2131 CBON19 97.3 ON Nipigon, same 2141 CBON5 101.7 ON Elliot Lake, CBC FF

Mono, over local CKNX, same direction!! 204 2245 WKLA 106.3 MI Ludington, rm\$ 29 Tr - dving out 0048 [WCKC] 107.1 Mi Cadillac, k\$,exWYTW196 0118 CJQQ 92.1 ON Timmins,r\$, Q-92 336

0144 CHAS 100.5 ON Sault Ste Marie, ID\$, weather report.

JANUARY 1992 0256 CBAL 98.3 NB Moncton, likely the one with CBC French mono network 0308 CKSB7 93.5 ON Kenora, same 748 0433 WCOS 97.5 SC Columbia, calls 0713 WPLR t 99.1 CT New Haven, ".. of New Haven was stabbed would have been new state 0720 WHFS t 99.1 MD Annapolis, "in Prince Georges County" This would have been a new state too, sich.

1240 WSDP 88.1 MI Plymouth, rp\$, ID rare here eince CBEE came on 120

0401 WQIK 99.1 Ft. Jacksonville, "FM 99 WOIK, apecializing in today's hottest k\* 21 GW 97.3 MI Essexville, k\$, uses

Wixie or Country 97 non IDs, new stn 116 FEBRUARY 1992 14 MS 0026 KMAG 99.1 AR Fort Smith, "99.1,

thanks for making us Fort Smiths...." **MARCH 1992** 1 TrS

250 1700 (WNCG) 100.9 OH Clyde,r\$,ex WLCO 175

That's it for now. December was a great month for DX, with Es, MS, Tr, and even a little Au thrown in. Too bad the same can't be said for 1992 thus far. 73,

dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E3 Equipment: JVC JR-S201 receiver modified with 3 150 khz filters, Magnub Dynalab 205 Signal stueth, Probe 9 fed with RO6 at 50' AGL, Crown Rotor. Phase: Delhi TV antenna at 40', in line attenuator. Thru 2 way splitter hooked in reverse to tuner, same rotor. (distances are in kilometres)

3 TrS 0736 WEJC 104.7 MI Tawas City, k, FM 104 295 after Chemical bank ad, KJC weather 0802 WCLG 100.1 WV Morgantown, r, CLG-FM "WCLG-FM Morgantown, the home of ---391 7 MS. TrS. & GW

FEBRUARY 1992 DX

0806 WNLT 95.7 FL Clearwater, , lite rock 1702 0827 WCLR 95.7 OH Piqua, b, "Clear 95.7 WCLR with Chicago "Right before my very eyes" 483 1629 (CKRZ) 100.3 ON Ohsweken, multiple formst "more music on 100.3 CKRZ Grand River Country" ex CFNC, licensed to go to 250 watts, but were still using 50 wasts when I called them, mono 25 15 TrS

0858 WLIF 101.9 MD Baltimore, mr. Lite 102 after Holly Forms ad, Vicky Cox ax update 529 7 TrS & MS

0649 WLEN 103.9 MI Adrian, legal ID, k 345 0700 WWIZ 103.9 PA Mercer, Sharon, Y'Town k, 1104 jingle, Mutual News

0814 WOKO 97.5 NH Dover, "Area cal 463-9750 from the SeaCoast, Portsmouth and Exeter 726 0817 WCIZ 97.5 NY Watertown, CIZ, "The rock and roll authority, CIZ FM", Bob Seger 334

0646 WJIM 97.5 MI E Lansing b, EZ 97.5,TC 355 0654 WORE 97.5 WV Charleston, k, Q97, ad 541 0701 WONE 97.5 OH Akron, "The home of rock 258 rock and roll 97.5 WONE FM" 0803 WPST 97.5 NJ Treaton, r. calls 529 12 TrS 0749 WORT 98.3 NY Salamanca, k, "98.3 WORT

the home of real country music" 0722 WRKU 95.1 PA Grove City, op, 95 K-Rock "Super Dave and Tina" morning show

0757 [WROI] 95.1 NY S.Bristol, r. Rock It 95 and legal ID, new calls, ex WZSH, Wish 95 231

0759 (WKMF) 101.7 MI Tuskola, k, KMF, new calls and format, ex WGMZ.

0729 WDKX 103.9 NY Rochester, s, "Best variety on Rochester's early morning show"

230 0730 WSRD 104.9 NY Johnstown, o, calls "Zippo in the morning"

0813 WSVS 104.7 VA Crewe k, "music that makes the difference, sunday morning gospei", calls 690

437

Report to the VUD!!

RICHARD SHAFTAN - 39 OLD MIDDLETOWN RD - ROCKAWAY, NJ 07866 (201) 586-3563

BEEPER FOR DX: (201) 955-4256

Equipment: Realistic STA-2280 W/3 110 KHZ filters, channel master 20 element TY 45' AGL. Phased with two Radio Shack FM Outdoor entennes stacked 7 feet apart 30' ASL thru 3 variable attenuators, a phase tilter and a Radio Shack "Variable Interference Eliminator", Both antennas are run through Radio Shack mast mounted amps. (In car: Kenwood KRC-430 w/2 110 khz filters)

FEBRUARY 1992 DX 4 TrS

1751 98.9/100.5 Rochester in strong in Ogdensburg \$ 24 GW Sussex Co., ten miles north and west.

8 GW & TrS

2030 WOSR 91.7 NY Middletown, Irish mx with WAMC ID at the top of the hour. Strong but not so strong as to obliterate the channel.

2300 WXLY 90.3 PA Schnecksville, Cl., ID 12 TrS

2130 WSSH t 99.7 PA Pittsburgh, "Wish Delight the new 99.7 FM"

2148 WKFM 104.7 NY Fulton, car in Feinfield, NJ 20 Tr\$

2146 WENU 101.7 NY Hudson Fells, car in Montville \$

1506 WDBA 107.3 PA DuBots, car in Persippeny, NJ 2200 WEDW 88.5 CT Fairfield, on air, apparently non-directional

2300 W5KO 89.3 NY Binghamton, ID thru WLJP 2343 WVOS 95.9 NY Liberty, ID thru WADB, both of these logged via phasing

2359 W??? 99.7 NY Middletown? beam north. oldies and 1950s car eds. Sounded like a pirate \$ MARCH 1992 DX but could be this testing. Heavy metal next nite § 1 Tr

2022 uniD 105.7 "Hot Mix 105.7" (Rich, was the beam north? WHMX in Lincoln, Maine uses that I-gc) \$2355 WRPR 90.3 NY Mahwah, ID and s/off, weak

**REQUEST LINE NO: 219-467-9500** 

JANUARY 23 MS 0033 WODJ 107.3 MI Greenville, ".. WODJ.."

2327 W244AS 96.7 NJ Oakhurst, now with WOBM

0005 WNPR 89.1 CT Norwich, strong w/WFDU, WNYU, and WWFM off the air 0014 WMH7 89.1 NY Schenectady, classical, NPR

0058 WCID 89.1 NY Friendship, religious program

In next night as well. WNYU and WFDU have been off the air for several days (still es of 2/28) 27 TrS

650 WLJP 89.3 NY Mennoe, off the air for several days w/dominants WPFW Washington, DC, WSKG In Binghamton, NY; WCNU Hezlet, NJ; WRDV Westmistr NJ as regulars, slight trace W207AK Bethlehem.PA

\$2200 various bizzare image of Radio Japan from 5.96 Mhz all over the dial, beam NW, fading in and out Can't explain (Hope it's not the radio, has it disappeared since then?-ac)

2300 WRGN 88.1 PA Sweet Yalley, ID WNYU, WFDU, and WLJP all back on

1100 WUFF 90.5 NY Jeffersonville, ID in North Bergen, NJ with very solid signal

2359 WNJT 88.1 NJ Trenton, ID and s/off, very weak. FM Atlas lists as 15 watts ventical.

Number one DX concern is new proposed Mañahawkin NJ station on 105.7 which will probably kill the channel

Bill Nienajadly PO Box 2999 Clifton NJ 07015-2999

Sorry to say, not much to report in the way of DX. WOSR 91.7 in Middletown NY is on the air and they are a relay of WAMC 90.3 Albany. They are in Stereo and can be heard on the car radio fading in and out as you drive around here. Thank to Chistopher Hanley in IL for the phone call and to Jeff Kadet for writing about My-Vee. They are a chain of stores in Iowa and western IL, this makes my UNID 99.7 seem very likely to be KFMH in Muscatine IA, a relog. Thanx guys for helping out! Phasing works great as ever, but the conditions have been lousey on average, many relogs via phasing, no new ones though. Still need Maine 102.9 though.

Current equipment set up, 2 Radio Shack 6 element FM only antennas on two separate rotors spaced 10 feet apart. RG-59 coax 100 ft length each line. Andy 30lin's phase box, Pioneer TX-9800 tuner modified w/two 180's & three TIO's, plus various splitters. And no DX, Goodxing!

#### GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIA MSVILLE, NEW YORK 14221 FEBRUARY 1992 DX 1415 WWIZ 103.9 PA Mercer, ks, 1104 145 15 TrS

1615 WALK 97.5 NY Patchogue, rms, calls 330 1626 WXCY 103.7 MD Havre de Grace, k\$ 273 22328 WSWR 100.1 OH Shelby, c\$, CKFM phs 251 20 Au

1226 KTUX 98.9 TX Carthage, ".. Great to have \$2337 WDET 101.9 MI Detroit, calls you along....Tux 99...Nirvana is..." 16 TrS

1401 WCLT 100.3 OH Newark T100, ks

1432 WPOS 102.3 OH Holland, g\$, calls phased WJET and CKDK 274 232 1138 224 Au 2012 WEZW 103.7 WI Wauatosa, EZ 104

471 279 APRIL 1 Tr \$0000 CIFW 103.1 BC Terrace, nice strong

opening just missed Alaska, %&4%1 2409

## SOUTHERN FM DX

Danny Buntin 1312 N. Skyline Stillwater, OK 74075

DEADLINE: 14th

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV.

#### IT'S TIME NOW TO START TUNING IN THE '92 DK SEASON, GOOD LUCK!

Jeff Kruszka, 2324-E Steamship Cir.,	Harahar	, LA 70123		
1/6 Es		1/6 Es		
1726 KSPZ 92.9 CO Co Springs, ID	1030	1759 KPRN	89.5 CO G. Junction	, Public Radio
1730 KMTS 92.7 CO Glenwood Springs,	1170	ID, ment.		1210
ID, k			90.3 CD G. Junctin,	
1731 KTSC 89.5 CO Pueblo, ID	1000	1850 KRWN	92.9 NM Farmington,	"FM 93, Classic
1757 KWSB 91.1 CO Gumnison, ID	1100	Rock", "t	he crown"	1140

John Tudenham, 2824 Missouri, Joplin, MO 64804

Equipt.: GE Super Radio, Radio Shack DX 400. Just indoor antenna at present. Do most of my DXing on ham bands. Call is WOJRP. Two now stations heard here in Joplin, regular. 2/19

2/19 2/30 KEVA 106.5 AR Bella Vista, big band adult standards

2203 legal ID KGMY 100.5, "My country 100.5" k, This is ex KELE Aurora, MO, believed licensed to Republic, MO, now 50kw ERF

Gus Mancuso, 5615 Inwood St., Cheverly, MD 20785

Equipt.: Technics SA-222 & Radio Shack plain rabit ears

/13 tr

0001 WIOV 105.1 PA Ephrata, calls. Had just taped last 90 min. of WAVA as top 40 They then signed off for several hours leaving freq. open. Last words were "....WAVA, Arlington-Washington and the future has come to this."

I read the Mt. Greylock bandscan confirming what I discovered in WV. Reception on top of mountains not so good, semi-locals become too strong, reception stagnates. Better to

work in valleys!

Probably won't be making convention in Cleveland. Have another twilight zone that relates to DXing for the next time I go. Hope to get some of the new stations going on this spring like 92.9 in DEL. Planning to drive to FL to visit parents this summer and with modified set. FL tough due to limited land area and there being so many 100 kws. That spot in S.E. Conn. where they built a casino on an Indian res. might be a great spot for a scan. But the biggie may still be S.W. Penn. Would like to go back to Atlantic City, too. Was surprised on last visit, got better reception on "N.Y.C." side of bldg. Lady we stay with in WV dying of cancer, will go back first week of June, if possible. Hope to do the midway stop in Grantsville again. Even when we get skip here it's no cuarantee of adding to total—keep getting LA & TXI

John Stempick, 1438 Colchester Cir., Port St. Lucie, FL 34952 Equipt.: Yamaha TX-930 tuner modified with 2 150 filters (Thanks Steve Solomon), Car stereo: Pioneer supertuner III modified with 1 150 filters & 1 170. All loggings are new IDs received upon relocation to Florids from Connecticut. Stations may have

been received more than 1 time; only lested when first received.

This is my first report to the VUD I am very glad to be a part of the world of DXers. I relocated to Fliorida from Commetticut in October '91. I have had a few good openings since being here. It was great to catch KOGA of Ogallala, NE(Es) back in Nov. I believe the mileage is over 1600 mt. I tape all of my catches and I can't wait until we really get into the trop season here in south FL. The days of going from temps in the 40's at night to warm fronts and highs near 90 in March. I'll be locking for big big openings in March. (Yeah, like gulf trop to TX. March would be one of the most likely times for trop like that. DB) Reception changes frequently here in Port St. Lucie. Certain days and nights feature Orlando, others Miami, Tampa Bay, Ft. Meyers and Jacksonville. I guess for me to report those stations as "tr" would be kind of lame. So anytime south of Miami or North or west of Jacksonville and north of Tampa Bay will be reported. Happy DXing folks!

10/30 tr 0845 WRWT 96.3 NC Morehead City 11/5 Es

11/5 ES 1600 KOGA 99.7 NE Ogaliala 11/30 tr 1645 WHTK 99.7 SC Hilton Head 1647 WSYN 106.5 SC Georgetown 1649 WXLY 102.5 SC Charleston cont...

SOUTHERN FO	M DX		Stempio					APRIL 1992
7/13 tr			-1 -1	1/8				
			Charleston					Macon
			Kingsland					Albany
			Savannah					Gainsville-Atlanta
			Gainesville	0238	WIIZ	96.3	GA	Albany
			Midway-Brunswick					Savannah
2050 WBGA								Sylvania
			Jacksonville Market			104.9	FL	High Springs
2225 WHJX				1/22		04.0		# # # 1 11 OF
2227 WBYZ								Kansas City, oldies 95
2240 WLOW								Kansas City, Mix 93
			Hilton Head					Kansas City, 94 FM KFKF
	9/2/	20	Myrtle Beach					Kansas City, Light 99.7 KLTH
11/14 1		-	> 7.1					Sedalia, B92-KCBW
0704 WFFM								Omaha, Light 96
0725 WKAA								Seward, 96 Kicks
			Savannah					Nebraska City
1050 WOOF	99.7	AL	Dothan					Columbia, 98.3 KFMZ
12/15 ms								Omaha, Sweet 98
			Chattanooga, KZ106.5					Omaha, great oldies KGOR
			in car in Port St. Lucie)		KGBI	100.7	NE.	Omaha (xlator of KMZO, MO?)
			Austin(Lulling)	世				
1817 KHFI						106.5	NC	New Bern
1830 KBIS	93.3	TX	Austin	1/23				
1/7 tr								Lake City, B94
			Melbourne(Over local WHLG			105.5	FL	Gainesville, Kiss 105
Jensen Be				1/30				
0200 WKZM	105.5	FL	Sarasota			102.1	FL	Key West, Picket 102
0205 WXTB	97.9	FL	Tampa, (o/WRMF West Palm	1/31				_
40 mi.)						7 96.3	"9	6 Country KNG?" (Any help?)
			Tampa, (o/WZTA Ft. Laud.)	2/12	tr			
0225 WMMZ	93.7	FL	Ocala, (o/lcl WGYL Vero	0011	WSTH	106.1	AL	Alexander City, South 106
Beach)								Vidalia, 98Q
0245 WXKB	103.7	FL	Ft. Meyers, o/Icl WQOL					Dothan, Joy 101.3
Vero Beac	h							Montgomery, HOT 105.7
1115 WRHQ	105.3	GA	Richmond Hill	1000	WXRS	103.9	GA	Swainsboro, 104 FM
1200 WKXZ	104.5	SC	Mt. Pleasant	1053	WXUS	100.5	AL	Fort Rucker, US 100
1315 WWQQ	101.3	NC	Wilmington	1100	WGPC	104.5	GA	Albany
1320 WAVF	96.1	SC	Hanahan	1135	WSNI	107.1	GA	Thomasville, Sunny 107
1333 WXTC	96.9	SC	Charleston	1205	WSTI	105.3	GA	Valdosta, Star 105.3
1343 WYBB	98.1	SC	Charleston					Havana, Mellow 105(YAWN)
1355 WGNI	102.7	NC	Wilmington	1215	WOHJ	L 98.1	FL	Live Cak
			Southport	1219	WDJR	96.9	AL	Enterprise, G. Brooks Radio
			Raleigh-Durham					Bambridge, Power 97
			Charleston					Columbus, Rock 103
1457 WYAV								Pensacola, WOW 107
1/8 tr								Moss Point-Mobile, Bay Ctry
	107.5	SC	Charleston					Mobile, oldies 96
a tat smon	10,10	M	The space of the Court of the C					Andulusia, 98 Surf FM
				210	J. Taranti.	200	-	

Alain Pepin, 234 Boul Montcalm, St. Jean (Quebec) J3B 3NB

Danny did you get my report from the Dominican Republic? (No, I misplaced it. Sorry.

Can you send another one? DB) Well, here is one from Bonaire. I didn't hear any FM from

Caracas, the AM was astoundingly clear! YVKS 750 was splashing from 720 to 7701 PJB wassandwiched between two very loud blasters from Coro on 780 and 820.

DX at the Black Durgon Inn, Bonaire, Netherlands
Equipt.: Sanyo MW-750 with built-in antenna, Times: ATLANTIC (UTC-4h)
Normal reception:

Feb 10 1002 PJC? 93.9 N.A Willemstad, "Radio Kursou FM"

Peb 10 1304 PJB2 94.7 N.A Bonaire "Voz di Bonaire 94.7 FM stereo: tur dia for di seisor di mainta te cu diesdosor di anochie": Papiamento for "Voice of Bonaire, every day from 6:AM to midnight". English ad for Coke

Feb 09 0600 PJZ 95.5 N.A Willemstad "95.5 Z-FM" sign-on in Papiamento

Feb 11 1000 PJB3 97.1 N.A Bonaire "Ritmo FM", automated pop mx
Recurring jingle: "Mas cerca bo via bo radio, Ritmo FM"
Papiamiento for "Closer to you thru your radio, Rhythm FM"

Feb 09 0900 PJC7 101.9 N.A Willemstad "Agui ta Radio Hoyer": papiamento //1010kHz cont.

**APRIL 1992** 

Feb 03 2100 PJC9 105.1 N.A Willemstad "Hoyer Clasico, interval signal

Feb 08 2000 YV ? 92.9 VEN Barquisimeto "Denamica" jingle, same as 1490 YVXD Caracas, Time check: "8:03 Dinamica Hipica" Horse race race results, ment. "Amigos y amigas de Dinamica 92.9 la FM #1 en Barquisimeto" 160 ml.

Another unID was heard around 98 mHz with Barquisimeto ads but not ID. N.A = Netherlands Antilles VEN = Venezuela

All stations in stereo, no noted subcarriers. Willemstad was 50 miles away, and I was sitting on Bonaire. Radio Nederland was heard throughout the FM dial because of shortwave overload from the nearby towers.

#### Christopher .. Danne, 21541 dw 8 St., Box 81, rembroke Pines, Fa 33029

Equipment: July x 28 mor fier w/ 150kh. filters arche: h alement I antenna

It's a bit of a ry off season for a way, but I look forward to a to year in 1942 I have some news at the end or y course that I hope will the of use to we Lier who gets a lot of uniq ou stul

11,22/91 Tr 2325 Word 106. Friet Gers villas, Sunny 06.3 , IT - 124

11/23 Tr 0000 whith 88.3 wa New Orleans. phone Su by Trudy Stewart, nothing else in this far away 600

0900 wJIR 90.9 F. key west, ID + "where Jesus Is the Rock"

12/24 Tr 11305wPIK 102.5 F. Jammerland Key, K Christmas mor, tests - dew

Time Carl Free of Location, details ales | Time Land Free t Location, details ales 1. 22,92 34 المال، المال، المال، المالية ا 11.9" sic., 1 X wy "Brother ike"

> 1.17 Ir 2333 WBP1 89.5 P. Naples, " ower 89.5", 5, NEW. TAL A.T. This is //wahk 91.5 "The bpark"

Also ... "Is in the news" 1/19/92: , ent & to Tex, 4x....ou unids 93.7/9 ..... Tampico "puper estelar" 94.5/test. Midu 90.1 "Estereo Vida", & Kaff 94.7 TX "The 110 Gat", ment. Texas hangers BB team. . . .

Local FM News ... wWE 1 92.5 adelle now D., /WADF 1430 ... WIF 32.7 areo now back to b mx. Faras a 102.5 is now WHPT ("The roint"), r...a. 105. has gire back to c after a disastrous attempt at the "Mix" r format "Maxy : 6", their last book as a 1.4, which wo 't 'cut it" here...

Be,, does anyody have the new 1992 work and Tytenebook. There signed tess in there for those of us who hear lentral up the aperies or as or ester method in this year's book, there are lists of F stations were in carta. itles o y . This .a year's book maybe trey a seri sale of in later fall one. The only way, however, to convince the . The resolution to make their sale of anyone the reported Latin F in a column, was a copy and sect they one, dack-issue and a might help, so they can see that at n mirrice isn't "immune" to ming hears, rlesse write Postage 50¢ for g-conce)

> andy Jerritt " - r - . Ty Ka & dOwk 1. . to. 1027 1 Wh as at ter a

#### PAT Dyer WASIYX, 5315 Silvertip Dr., 78228 2744 Dec 1931

I: 'Fs' Jen 12 7 DN 2 4 17. THE WORLD TO THE CONTROL OF THE 1000 7 F 7 

EFF STUL F. VA S JEST Wile BART Υ ( \*F. I R R.S. A F C x a 16 15 C W F. T altre 12 CONT....

Dyer, cont. SOUTHERN FM DX ₹88 ×6 A 88.5 10 00 99 1 5 ETT A A AD S FA DW PERRY MET THE PLANTS OF B B THE ME #: 788 - .(5 91.5 %) 408 8 15 → (Eg) TET WIF F.E F. Leve See 8 2 w 19 95.9 FL Broadeat B W. F C S F. M EN FIR WANT BY C. T. Park Esait. D . w 96 = 12 1 2 STL NEWS BART TO BEEN elm with 3 15 Fig. .AS WELL 8.5 PL '6' 65 OUR NUE 97.9 FL Mar 7 4 h 910 K1 59 7 FL M am ROBERTO 9 3 AZ Gelde 'u.5 [ a z. (tr' SUB YEAR, IL. 5 N MU He Y all se inlar ofer .. 5 as the second , 7 v -14.5

"ony there to YS143 1 @ Salveder for halring ith the ID'r. I for that I could find someone in Gator alarc ! Tarch to These on the bear of the bear of the bear of the terms of the control of the bear of the bear

APRIL 1992

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## EASTERN TV-D

8ill Mienaiadly PO Box 2999 Clifton NJ 07015-2999

Dealline The Sth

A one pager this month, which is sort of expected this time of the year. In the meantime this might be a good time to check your antenna system out, since the tropo and E-Skip season is only a month or so away. Check your coax, antenna lead ins and replace it if needed. You know spring cleaning.

UNIDs should be sent to Matt Sittel, who is now running the CCI column. ETVDX will still print some unids as in the past. The last few ETVDX columns, other WTFDA members where real quick to help ID stations and quickly point out and correctly answer any LNIDs one might have had. So until the CCI column appears more often, we will continue to print unids Please don't report stuff like JNID 31 without more information like JNID 31+, JNID 31 P85 UNID followed by something, otherwise it is a waste of time.

Those who check out TV often for signs of tropo ducting, should use other indicators too. Check out the National Weather Service 162.+ , check the HAM CHF bands, use your scanner for tropo searching. A scanner often has much more sensitivity than TV sets. ON to the DX ------......

Bruce Hall 5 Stirton Ave Brantford Ontario 🧪 Hitachi CU-13O Converter, Teknika TVC-22. Channel Master pre-amp Delhi Combo V-F/UHF antenna at 40 feet.

#### January 1992 Tropo

29 2320 WMCP 8 PA 30 30 0240 WTAJ 10 PA 30	0029 MLYH 15 PA 30 0059 METM 18 NY 0030 MNEP 16 PA 29 2230 MHP 21 PA 0030 MPH 17 PA 29 0000 MYOU 22 PA lox 2651 McM111ian MI 49653 Dece	29 2359 WENY 36 NY Historia 1991 Tropo
27 2023 CITY 57 ON 358 2035 CFMT 47 ON 358	0033 WYTV 33 0H 437 0234	WPGH 53 PA 488 29 1913 WMBD 31 1L 429 WICZ 40 NY 564 914 WEEK 25 1L 429
2037 CBLFT25 ON 358 2059 MNEO 45 OH 439 2228 WSYT 68 NY 523	0126 MPTT 22 PA 500 0301	WITE 28 OH 441 924 WICD 15 IL 438 WMPC 23 PA 534-TP 2221 WOAC 67 CH 429
2234 WATT 50 NY 2258 WENY 24 NY 528	0139 MPMT 43 PA 627 0823	CFWT         47 ON 358-TP         2227 MYZZ 43 I. 421           WBNX 55 0H 398         2229 WHOI 19 I. 429           CFTO 9 ON 358         2234 KLUB 18 IA 408
2259 wXXA 23 N1 629 2306 WBRE 28 PA 602 2316 KSAX 42 MN 454-nt	0159 wKBN 27 0H 437 1359 0201 wENY 36 NY 523 29 1900	WON 62 (N6ZAN -nt 2 2323 WOM 19 WI 320 WAND 17 L. 459 2320 KYIN 24 IA 399 WICS 20 L. 480

Note # 1 Off back of antenna which was pointed at NY stations.

Note # 2 ID-ed as WCNY-only ID given-(Jerry, it does point to Newdrow NY with 11.5 kw-congradulations!-BN) JANUARY 1992 Tropo

4 2200 KRIN 32 IA 404	4 2400 KTIN 21 IA 487-rst 1	5 0907 WKEF 22 OH 494	5 1314 WQRF 39 IL 319
2334 WXOW 19 WI 320	5 0053 KMEG 14 LA 579	1159 WXIN 29 IN 437	28 2211 KDSM 17 IA 494
2336 AQON 18 WI 299	0059 WLAX 25 WI 321	1203 WFFT 55 IN 353	2216 WLAX 25 WI 321
2368 KSIN 27 IA 579	0102 Note # 2	1208 WEHT 25 IN 583	2221 WXOW 19 WT 320
2359 KŸĪN 24 IA 399	0859 WOPT 61 Note 3	1229 NET 18 IN 404	2223 KYTN 24 TA 399

Note # 1 On IOWA public TV stations only ID was IPTV, not each station's call letters.

Note # 2 Test Patterns Iowa Public TV on channels 21,24,27,32.

Note # 3 PBS another translator that I don't know what it is- ch 61 carrying ID and programming of WQPT Moline I. I don't have any listing for this one. (Niether do I-BN) A---

Stephen West 26 Dougherty Blvd. G-8 Glens Mills PA 19342 NOFVO 215-358-2648

I have returned to the club after a respit. Equipment is a Radio Shack u-120, PA 4975 JHF amp. Pigneer TX-9500 II. a Technics SA-222 receiver and a Technics ST-8044 with a six element RS FM antenna. The FM sets have been modified with great results. I recently bought a Tripplight power inverter (100 watts) for the car. It should be handy for doing serious TV DX from the car this summer, since I can plug in a JHF amp & LCD TV in the car. Now I use a home tuner in the car. The DC to AC power inverter cost \$75 new, it is available at eletronic & RV stores, and with the 100 watt version, the only connection is a digarette lighter plug to the lighter jack on the dash. It would be great for DXpeditions to the mountains that do not have electricity.

One great place for a DXpedition is the Cape May Lighthouse at Cape May Point, NJ. The lighthouse is about 250 ft tall and has electricity at the top! I used a pocket TV last year & received D.C. and Thenton (NJ) on UHF with just whip antenna. ( Idion't bring a amp because I didn't expect electricity up there.) The attendant was a Ham operator so he enjoyed the DXing. the conditions were bad for DXing the afternoon I vistited the lighthouse. Delaware translators on 27 & 64 were snow free at the top of the lighthouse, and were nonexistant at the base of the lighthouse. Admission is \$3 00 for adults, less for seniors & children. The Technics SA-222 has a switch near the antenna terminals to change from .2 to .06 Mhz. Although i have been out of the club, I am a lifetime Oxer & I enjoy watching "Meather World" on WIIF-33 as well as receiving small town stations that do not have such tight playlists as the Philly stations. Dxing is a practical application of Marshal McLuan's quote "The medium is the message". Stephen

Fred McCormack Box 17860 St. Paul MN 55117-7860

Deadline: 05-07-92 Cut-off: 02 01 92

E skip in February was only reported on the 2nd. The opening noted by Pat Dyer was an unusual early morning event. Pat also caught an F2 opening on the following day, 500+ mile tropo was noted by Bill Eckberg and Bill Draeb on the 2nd and also on the and the 3rd of March by Bill Draeb. John Ebeling noted five consecutive evenings of South American TV DX while vacationing in Barbados.

Tent. - t Unidentified unid S/On - + S/off - = New Mode Misc. Test Patterns - & Unitd Color Bars - % ID Color Bars - @ MTS Stereo - \$ Parallel Programming - //

GR Guerrero

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

RCA 13" (1987) EMR350E color, KTV 12 1210A b&w, Archer V-100 and 8 bay bow-tie UHF array at 20 feet with rotor.

December 1991	January 1992		7 Es 0958 KUSD 2 SD 945
	2 Es 1759 WP8T	2 FL 1150	WBAY 2 WI 1185
2 Es 1455 WDTN 2 OH 1075	4 Es 0129 WMAY	3 NC 1235	1220 WCIA 3 IL 930
1629 CKCO2 2 ON 1430	WEMY	2 NC 1175	1833 XHAP 2 GR 875
1658 WSAZ 3 WV 1125	0206 WAVE	3(IN) 955	12 F2 0832-1011 unids ch 2
1705 WJ8K 2 MI 1240	1030 KXMA	2 ND 1215	16 Es 1856 WESH 2 FL 1040
1827 KTVI 2 MO 780	5 Es 1346 WJXT	4 FL 1020	February 1992
1828 WAVE 3(IN) 955	1400 WESH	2 FL 1040	2 Es 0627 WWWT 3 MI 1160
3 Es 1812 WJBK 2 MI 1240	1459 WSAV	3 GA 1040	WCIA 3 IL 930
1815 KTVI 2 MD 780	1743 KTVK	3 AZ 835	0642 WBBN 2 IL 1055
1817 WBBM 2 IL 1055	6 Es 1528 WFMY	2 NG 1175	0657 WBAY 2 WI 1185
1820 WCIA 3 IL 930	1529 WWAY	3 NC 1235	D747 KGAN 2 IA 960
1857 WTWO 2 IN 925	1558 WBTV	3 NC 1090	0759 KTVO 3 MO 840
1900 KIMT 3 IA 1010	1648 WPTV	5 FL 1135	0805 WBTV 2 NC 1090
B Es 1700 WSJK 2 TN 1010	7 Es 0958 XMTV	3 NE 830	3 F2 0710-0752 unids ch 2

I was trying for some of the Quadrantid meteor shower in the wee hours on the 4th and wound up with an E skip opening instead!

The F2 of the 12th, again, was I kely from northern South America. Got 15+ minutes on video tape, with some of the apparent cartoons probably recognizable to those familiar with them. A high incidence of E skip in January, considering the December levels.

A March '92 QST article deals with my FM E skip data collecting for 1980-1990. 73.

Pat, WASIYX

William Eckberg, 1832 Sterling Road, Dixon IL 61025

CST

Equipment: See February 1992 Western TV-DX

February 1992		WLMT 30 TN	1.4		29 NE 464
2 tr 0255 WAAY 31 AL		WLOV 27 HS			29 AR 463
D3DO WTTO 21 AL	582 0435	WYMT 57 KY	449	0350 WOIO	19 OH 401
0315 WNAL 44 AL :	551 0500	WZTV 17 TN	408		
0342 WPTY 24 TN	4 <u>51</u> 0530	WAFF 48 AL	503		

New loggings Memphis 24 and 30 were nearly snow free in quality. St. Louis 30 at the same heading was notably absent.

My "Fighting Cock" test pattern has appeared in Photo News so perhaps someone can shed some light on this mystery. Some members to the south have been very helpful, but no positive ID. I have eliminated all but a handful of channel 2s north of the equator.

In the movie "Star wars" weren't there a race of people that bore a resemblance to chickens living in another galaxy. I have received comments that it looked like everything from a mug of foaming beer to a statue on Easter Island. To almost everyone Bt the convention, and myself, it looked like a rooster.

Western TV-DX\_

<u>William Eckbers (continued)</u>
Basseterre, St. Kitts, British West Indies has just replied and stated that it was not them. They included some

interesting information on their operation. They use color bars.

The reception briefly came in so strongly it completely wiped out WESH-2. The mystery station had the same offset as WESH-2. I can't find any mention of unusual 6 meter activity on that day in QST.

I received a reply from Port-of Spain, Trinidad signed by the chief engineer. He stated that to his knowledge they never had a test pattern like that. Also other info.

John Ebeling, 9209 Vinent Ave S. Bloomigton MN 55431

AST

Was on vacation in Barbados from February 1 to February 15. On the 6th of February, the hotel placed a Samsung color TV (model TC 9865TB) in our room for viewing local CBC-8 (Caribbean Broadcasting Corporation). This set was a 60 Hz version, even though their 110V is 50 Hz. Must use a chip (IC) which synchs in either line frequency, as set worked OK (vertical synch was stable).

Anyway, with a TV set in the room, I could do a little DXing at 13° N latitude, which is a far cry from Minnesota. Only had set's "rabbit ears" with which to DX, but when I

had time to DX, results are as noted (Atlantic Standard Time)

2-10 2230-2330 chs 2-5 - aurora like E skip, active but no picture seen, but video very active. Spanish audio (at least two audios fighting it out on some channels). "Caracas" heard.

2 11 2230-2330 chs 2-5 - like above (no Caracas)

2-12 2230 2336 chs 2 5 - again like above.

2-13 2245 2350 chs 2 6 - again like above.

2-14 2230-2315 chs 2-5 - again like above

Reception was best with antenna on an east-west path. Audio was all Spanish, two to three deep at times and at times sounded like a "heterodyne" between audios. Weird TV - so active but a "picture" seen for only a fraction of a second several times. Quite unlike any E skip I've seen over the 42 years in Minnesota DXing, aurora or otherwise.

I don't know if any aurora was present, as I could not see the northern sky; I was

on the south coast of Barbados.

Not much of a report as I can not give any IDs, but it at least shows activity every evening that I was able to check. I did not notice any DX upon arising in the mornings (usually about 0800 AST).

They do have subscription (scrambled) TV in Barbados: cha 14 & 16 are Lifetime, 18

& 20 are ESPN Sports, 22 & 24 are CNN, and 26 & 28 are Turner Network TV.

(This sounds like Trans Equatorial Scatter to me. Unfortunately, my references and old VLDs are in storage so I can't cite any sources. As I recall, in the early years of the club, Glenn Hauser reported T-E oggings while in southeast As a. Also, Bob Cooper wrote on the subject. fm)

William Draeb, Ellis St., Rt. #2, Kewaunes WI 54216 (414-388-2350)

CST

Equipment. See February 1992 Western TV-DX

February 1992 1 tr 1902 KOCR 26 IA 280	2 tr 0658 WKYT 27 KY 473 WLEX 18 KY 473	19 tr 1903 WKPC 15(IN) 437 WTVQ 36 KY 473
1958 KNLC 24 MO 432	0711 WPBO 42 OH 462	KRIN 32 IA 280
KDNL 32 MO 432	8WEVV 44(IN) 420	21 tr 1821 WKPC 15(IN) 437
WHSL 46(MO) 432	0713 WBMG 42 AL 768	WLKY 32(IN) 437
WTJR 16 IL 365	0720 WUSI 16 IL 390	WDRB 41(IN) 437
KMIZt 17 MO	0736 WDKY 56 KY 480	WTVQ 36 KY 473
2032 KDINE 11 IA	0908 WGRB 34 KY 515	22 tr 0729 WKPC 16(IN) 437
KIINE 12 IA	WCTEt 22 TN	WLKY 32(IN) 437
2354 WDRB 41(IN) 437	WYNTt 57 KY	WORB 41(IN) 437
WDKY 56 KY 480	0927 KAWB 22 MN 365	23 tr 1940 same as 02/22
2 tr 0327 K58BX 58 1A 250	2035 WKHA 35 KY 553	25 tr 2149 KHINT 36 IA
(Davenport TBN)	16 tr 2004 WGBA 26 WI 25	2153 KSMQt 15 MN
Rockfrd 33,45,62	(Now Fox)	26 tr 0535 KSHB 41 MO 525
0658 WAFF 48 AL 685	2109 WLKY 32(IN) 437	EKOIA 15 IA 345
WDRB 41(IN) 437	( WXQZ 32 dark )	0541 eKCPT 19 MO 525
WCET 48 DH 400	WDR8 41(IN) 437	ekSPR 33 MO 589
WTVQ 36 KY 473	19 tr 1903 WORB 41(IN) 437	KDEB 27 MO 589
(Snow free)	WLKY 32(IN) 437	KOZK 21 MO 589

N		
William Oracb (continued)	Narch 1992	3 tr 0711 WDIO 10 MN 286
£1, 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	2 tr 2159 kSAX 42 MN	380 1200 ( See Note # 2 )
26 tr 0551 0KYFC 50 MO 520		) 500 1721 KVRR 15(MN) 500
0609 WTCIt 45 TN	2250 KAWB 22 MN	365 (Better than AM)
WDSIt 61 TN	3 tr 0630 KYRR 15(MN	
WNEO 45 OH 40	KSAX 42 MR	380 KAWB 22 MN 365
CBLN4 45 ON 30	KBMY 17 ND	
0611 WWAT 53 OH 43	( See Note	( 1 ) 4 tr 0410 W61- 61 MI
WP80 42 OH 46		
D616 WDRB 41(IN) 43	7 0653 KDSD 16 SD	500 (Grand Rapids??)

Note # 1 Positive ID at 0730 with KBMV 17 KCMV-14 ID slide. Note # 2 Early AM DX still in, but KBMV-17 mostly gone

Two new ones this time. KBMY-17 was a nice surprise and my furthest tropo to the west. I looked for KCMY 14 in early AM, but nothing there. Checked VHF for KXMB-12, but WJFW-12 dominating

The channel 61 I suspect is from the Grand Rapids area. It only makes sense, they have TBN on channel 19, LeSea on channel 15 and now Three Angels Broadcasting Network on channel 61. I wonder what other denomination will jump in? I'm not against religion, but if all three networks would pool their resources they could serve more people with just one high power station. The way it is now is a waste of spectrum space, in my book.

(BI, I show a construction permit for W51BX in Grand Rapids. The permittee is Good News Television Inc. fm)

#### UPDATE ON THE N.J. SCANNER LAW

BY BILL NIENAJADLY

Around the third week in January 1992, Governor James Florio signed Senate Bill 5-305 into law. This bill combined A-3044 and S-305. A-3044 was the actual repealing of NJ scanner law which several organizations like ANARL, ARRL, NESN and some WTFDA members all had a part in. Now the law states that if you are caught committing a crime, interfering with a police operation, and using a scanner for such tilegal purposes, you will be charged with a Fourth degree crime. If you are a just hanging out & listening in your car driving around, you will NO LONGER GET ARRESTED FOR HAVING A SCANNER IN YOUR CAR, this applies to all law abiding citizens.

Fellow Diers, this is a very important and very intelligent step in the right direction. We as radio hobbylsts, have won a important battle. New Jersey under the old law, didn't give consideration to Ham operators and now it does. In other states that still restrict scanners in vehicles I belive Ham operators are exempt or could easily get a permit as a Ham So those in states such as Indiana, you want to legally get a scanner in your cars. get a Ham license & then a permit if needed. Really there are only a few states that have scanner laws still on the books. But my state, kJ was the biggest hurdle. Thank to those who took part in the letter writing campaign

About Jersey City NJ, as you remember JC was proposing to outlaw scanners in the privacy of ones home in that city. Word has it from a few sources is that the proposed ordinance was thrown out as overkill, invasion of privacy and violation of ones rights etc. In fact if one really interprets the new law 5-305, if you use a scanner in your home for CRIMINAL purposes you can get busted where as before the cops had no law to battle the bad guys for using scanners for illicit purposes. Perhaps other states that still have 'scanner laws' can adopt New Jersey's intelligent '5-305' and thus prosecute the criminals and leave law-abiding citizens the right to listen where ever they want to anything with out fear of arrest!

Those who wish for a copy of \$-305, please send a SASE to ETVDX PO Box 2999 Clifton NJ 07015 2999



RGÁNOKE VIRGINIA

IT'S A VISIT TO PIEDMONT PIGNEER WSLS-TV IN HOANGKE, VA. IN COMMEMORATION OF 35 YEARS ON THE ATH, THE STATION PUBLISHED THE WSLS FAMILY ALBUM". A SAMPLING OF THE 1987 BOOKLET IS FEATURED HERE WITH NO COMMENT FROM YOUR COLUMN EDITOR...THE PHOTOS AND CLIPS TELL THE STORY QUITE NICELY! THANKS TO DAVIO SHAPING FOR THE MATERIAL. Prepared The STORY RESERVED TO THE PROPERTY OF THE PROPE



American television is different from television anywhere else in the world in one special way; in America local television is committed to serving the particular needs of its community

To address the concerns and meet the needs of a grassroots audience means paying attention to those problems and issues that are unique to mainstream America. In that light, WSLS-TV has

set the pace for responsible broadcasting in Southwest and Central Virginia

WSLS-TV, Virginia's pioneer television station, was, and is, a station of firsts

FIRST on the air
FIRST with live remote coverage
FIRST with videotape recording
capability,

FIRST with full color coverage, network and local.

FIRST to "feed" live network programming to a national audience, and

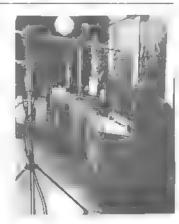
FIRST with minicam coverage of news in the field

Those who founded directed and toaled in the fields of early local television did so with vision. They literally rolled up their sleeves, drew on their creativity and forged a communications concept

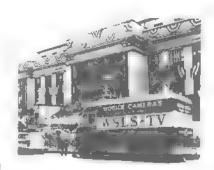
For three and one-half decades WSLS-TV has been the pathfinder. It enjoys an unparalleled past, an enviable present, and an exciting future.

On these pages, the years of service by WSLS-TV are chroniced in abstract. Read them and share in the pride of those whose contributions have made WSLS-TV 10 a household name

Lee Garrett Director, Community Services WSLS TV







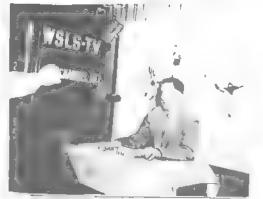




The second secon



When we increased our power in 1; " an appliance dealer is Participant North warms sent us a photo he had taken in its true course."



State Senator,







#1 News team in Virginia (1954) (Lto r) Joe Moffatt, News Director: Tom Wright, Anchor (Your ESSO Reporter): Glen Robertson, Photographer, Jem Walsh. Reporter; John Gilbert, Reporter, Jem Shell, Reporter, and Ed Thomas, Sports Director.



1 meraman Glen "Whiley" Robinson and George Chernaull c ronicle the final run of the Pocahontas. (June 1971)















NEXT MONTH: Feducah, Cape Girardaau, Harrisburg - AND - Monkey's Eyebrow

# ONE HOP...TWO HOP...THREE HOP... MULTI-HOP OR NO HOP AT ALL?

BY JOOP J. PROSÉE

In the Sept. '91 YUD page 24, Doug Allen is again taking attention to the article 1 wrote for the June '90 YUD about new sights upon ionospheric propagation, in which, in particular the so called two or more hop Es mode was put to a test. In my article the theory was brought up which says that extraordinary big distances with Es propagation could be declared by means of the so called, "No Hop Theory" in stead of the commonly used explanation among HAM's and (TY)DXers that is based upon the so called "Hopping Theory".

In his article it looks like Doug is thinking that the "No Hop" theory is my personal invention, because he states in his article "Joop J. Prosee's No Hop theses", once again I declare that everything in my article them, was based on what can be found in all kinds of literature about propagation. Among others, some of the propagational findings out of the first chapter of the 14th edition of the ARRL Antennabook were partly incorporated in my article.

Doug is disagreeing with the "No Hop" theory, well it is his right to do so and I'm not writing this article to convince the disbelievers of the "No Hop" theory, but we have to take into consideration that the so called "Hopping Theory" is also not more than a "theory".

And, let us in the first place agree upon what we have to understand when we use the expression "Double HOP" propagation. For me and I hope everybody agrees, "Two HOP" or mostly called among TYDXers "Double HOP" propagation goes: Earth-Ionosphere-EARTH-Ionosphere-Earth. So when I hear or read: "Double HOP" I always interpret this with an earthly reflectionpoint somewhere in the middle of the path!

Now we have set this matter clear, it is time to go further with this subject and some more explanation and examples concerning the the mechanism between the sometimes amazingly big distances that can be reached with apparently quite normal Es propagation.

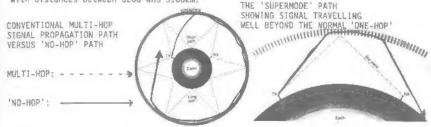
For me, one of the most convincing facts that I found in propagational literature, putting the multi hop theory aside, was the report on experiments with so called, "round the earth signals". These are mostly Shortwave signals that travel around the earth, these signals can be received after they travelled around the earth, on the same spot where they were transmitted from. The scientists that were carrying out the measuring on the signals made calculations on what signal delay-times could be expected before the actual experiments took place. In these first calculations they took in consideration a certain amount of hops between the ionised layer and the earth's surface. When the actual experiments took place, the scientists were absolutely surprised about the times that were measured. The measured "round the earth" times were considerably lesser than was calculated at first. The conclusion they draw was: "Electromagnetic signals tend to travel around the earth without hopping", nowadays commonly known as "Supermode". In the ARRL antennabook 14th edition you can also read about this matter on page 8 of chapter 1 under: "Single and Multihop Propagation". This complete chapter is highly recommendable for VHF/UHF DXers!

In his article Doug asks for information about "1500 miles plus" Es DX. Maybe info about this matter from Europe is also welcome? In the part of midwestern Europe where I live the reception of "1500 miles plus" signals is rather common and is occurring quite many times every Es season. Especially TV and FM signals from the Middle-East come in regularly. One of the TV transmitters that can be received 6 to 10 times per Es season is the 104 kW ERP transmitter on the E3 of the JTV from Jordan...the Suweileh transmitter near the capital Ammun at a distance of 3375km (2100 miles). Less common is the reception of the two Syrian the E3 TV transmitters at 3150km and 3479km. Other Middle-East TV guests are ARAMCO-TV with 5 kW ERP from Saudi Arabia at 4754km, the 120 kW ch E4 transmitter of Bahrain at 4778km and sometimes even the ch E2 150 kW ERP DRCTV Dubai transmitter can be received here in Holland at a distance of 5162km (3210 miles)). On the 16th of June 1991 I received a TV transmitter on the E3 which was showing Arabic pages of teletext. At first I thought this was the "common" transmitter of Jordan (same offset) but later on, it became obvious that this was the "skW (1) the E3 transmitter of Abu Dhabi in the United Arab Emirates at the unbelievable distance of 5160km (3208 miles)...this reception lasted for almost two hours.

One of the most remarkable periods in this field was the entire month of July 1990. Between the 30st of June and the 1st of August there was an amazingly large amount of TYDX receptions of Iranian TV transmitters in Holland. Unfortunately I was on vacation but I managed to see the last two openings toward Iran. Totally there were 15 seperate days, IRIB-TV could be received in Holland with amazing strengths and even sometimes with SECAM colour on channels E2, E3 and E4 simultaneously. The distances between the Iranian TV transmitters and Holland are between 3910km and 4620km. This is so extremely remarkable because as could be remembered Iran-TV was only seen two or three times in the last 30 (1) years by Es propagation in Holland or in western Europe at all!...

If we look back on the 1990 Es-season, it appears to be absolutely the best if looking at the number of times Near- and Middle East Band-1 TV transmitters were received: 15 days Iran (3910-4620km), 12 days Jordan (3375km), 2 days Syria (3300km) and 1 day Saudi Arabia (4750km).

Even the Es-season of 1991, commonly regarded as one of the lesser ones of recent years both in the USA and Europe, did bring in 12 seperate days with Jordan TV on ch E3 plus nine days with other lowband TV transmitters from the Near- and Middle-East with distances between 3200 and 5160km!



What conclusions can we draw from the above information about the mentioned 1500 miles plus receptions? When we looked at photographs belonging to the 1500 miles plus receptions one thing was rather striking, the almost absence of ghosting. Only the photos of Abu Dhabi showed some moderate ghosting. In particular one photo of the Jordanian PM5534 test pattern, one of the IRIB testcard, and one of an IRIB announcer showed absolutely no ghosting, the announcer's photo is only showing some cochannel interference! When "Double Hop" propagation should be the matter with these receptions, it would be reasonable to expect much more ghosting because of the midpathearthly reflectionpoint! Also because of the surprisingly great amount of this "1500 miles plus" receptions here in Holland from the Middle-East, it is not imaginable that every time two separate Es-areas (clouds) are involved with an only constant preference for the Holland/Middle-East direction. In my point of view it is more likely that for some reason or another an enormous Es area arises between midwestern Europe and the Middle-East. In this "super Es-cloud" it is not unlikely that the phenomenon of "Supermode" is taking care of the transportation of the signals from one end to the other end of the Es-cloud.

If one reads the propagational theories, you always encounter, that saltwater paths are absolutely preferable for long distant (hop) propagation. If so, why do we receive here in Europe so many times "1500 miles plus" via a theoretically nonpreferable land path and why do we receive almost never USA and Canadian Rand-1 signals, of which there are 30 in the range 3900km to 5300km, via the preferable saltwater path when an intermediate earthly reflectionpoint should be involved as should be the matter with "Double HOP" propagation?

A huge amount of questions about these propagational matters will remain open and maybe we'll never know exactly, how it is possible that sometimes such big distances are bridged with obvious normal Es-propagation. But if we don't think and talk about these matters we sure will never know what is going on!



Fred Nordquiet 7945 Boxford Rd Clay, NY 13041 Deadline: the 5th

## ALL-TIME FM DISTANCE RECORDS AS OF 2/20/92

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97.50 ES KINT	TH EL PASS	1670 RSE-NY	100.90 TR KEPS	TX	VICTORIA			104.30			DETROIT		FACSHIB
57.50 TR MPCV	F WINTERMAVEN	1027 PDY-TX	100.90 AS HONE					104.50			d PALM BEACH		FRC-hD
97.50 KS KINT	TX EL PASO		100.90 AU KDAD	Re	LUVERNE	406	FRC-ND	104.50	TR XELTH	BC	TIJUANA	2518	SREINI
97.50 AU MMAS	MS DXFORD		101.10 ES CFMI		WESTMINSTER	1827	RBR-NI	104.50	AS KEXL	TX	SAM ANTONIO	1103	RBR-NI
97.70 ES CBUF	BC VANCOUVER	1526 JP1-MA	101-10 TR KRTH		LUS AMBELES			104.50		(jr	WODSTER	639	JEB-MH
97.70 TR XBUV	CX KINGSVILLE		101.10 AS KCKK		KAnaz			104,70			TAMPA	5530	JPI1CS
97.70 AS WVDP 97.70 AU CHOM	6A VIDALIA		101.10 AU MMZU		CANNOLLTON			104.70			TARPA		PDY-TX
97.90 ES XETIA	PG NGNTREAL JALGUADALAJARA		101.30 ES WVnR		HAMPTON			104.70			STOUX FALLS		SCH-ON
97.90 TR WJNU	FL PALM BEACH		101.30 TR KNCN		SINTON			104,70			SIGUX FALLS		ABO-IL
97,90 MS WRMF	FL PALA BEACH	1130 FAEIIL	101.30 MS KDWB		RICHFIELD			104.90			UVALDE		JJE4CA
97,90 AU WSIX	TX NASHVILLE	726 SD4-DN	101.30 AU WEZO		ST PETERSBURG			104,90			BEEVILLE		CHOLFL
98,10 ES W707	OH CANTON	2050 FAD-DR	101.50 TR KGB		SAN DIEGO			104.90			MAYNE		BNI-HY
98.10 TR KRRD	TX LAREDO	1197 CDu-F	101.50 MS WIRA		MADISON			105.10			ABILENE BELENE		GC8-HY UN€40×
58.10 RS WDFR	OH ALLIANCE		101.50 AU MBIE		MARIETTA			105.10			LOS AMBELES		SREINT
90.10 AU KUDL	MO KANSAS CITY		101.70 ES KTLO		TAHLEGUAN		JPI1CA	105.10			CORAL GABLES		RSA-TI
98.30 ES CFLY	OH KINGSTON		101.70 TR KS0X	100,1	RAYMONDSVILLE			105.10	na break		SALER		JEB-Me
98.30 TR KXT0	TX ODER	913 CHOIFL	101.70 MS NONE					105.30			SEGUIN		JJE4CR
98.30 MS WL5N	FL BOULDS	1215 DHA-QH	101.70 AU WILS	11	LANSING	291	FRC-HD	105.30	TR KCBB		SAM DIESO		SREINI
98.30 AU EXEC	ON AINGSTON	684 ABO-1L	101.90 ES WCIB	MA	FALMAITH	1576	FAC-ND	105.30	MS WLTS	LA	SLIDELL		FHQ-HY
98.50 ES KARE	TX PGAT ARTHUR	1650 RWOZAT	101.30 TR KEDS	ÇR	GLEXDALE	2474	SREINI	105.30	PU WDRS	Pp	PHILADELPHIA	611	238-HI
98.50 TR KLAZ	AN LITTLE HUCK		101.90 MS KGAT	TX	SAM ANTONIO	1050		105.50		V9	ТАРРАНАННОСК	1430	FRC-HD
98.50 RS WTFR	TH KINGSPORT		101.90 AU WRIG	WI	WAUSAU	603	FRC-ND	105.50	TR KITH	TX	MISSION	1155	CDU-FL
98,50 AU WSB	GA ATLANTA		1102-10 ES KLYX		HOUSTON	1506	<b>JAIJEU</b>	105.50		Tn	SPARTA	739	JEB-MM
98.60 ES TGHR 98.70 ES KBSC	BU BURTERALA	1503 JPI-RA	102-10 TR ALYX		HOUSTON		REK-FIL	105.50			SYLVANIA		ABO-IL
98,70 TR KNUS	AZ PHGENIX	1780 MDA-FL	102.10 MS WWES		NUMBERS			105.70			VANCOUVER		JPI-HN
96.70 RS KNAL	TX BALLAS TX RMARTLLO	898 MBA-FE	102.10 AU NFMD	-	FT WORTH	-	ABU-IL	105.70			STEPHENVILLE		CH01FL
98.70 AU WBFG	MI DETROIT	1126 JJE4CA	102.30 ES WPTR		ROANCKE RAPID			105.70			HOUSTON		JEB-#h
98.90 ES NHFR	NY ROCHESTER	536 MBU-CT 1504 PDY-TX	102.30 TR KBIC	18	ALICE		CHOIFL	105.70			HOUSTON	-	JEB-AN
96.90 TR WRGM	FL TALLAHASSEE	861 PDY-TX	102.30 AS NOME 102.30 AU WWSR	107	ST ALBANS		RBR-MI	105.90			JUAREZ		FREZOH
96,90 AS CIZL	SA REGINA	1173 RST-IN	102.50 ES WTSP		ST PETERSBURG		BETSWY KRK-WT	105.90			FT LAUDENDALE		
98,90 Au w5PA	SC SPARTANBURG	552 888-61	102.50 TR KSNI		SANTA MARIA			105.90			RENU DEMVER		JEB-MN
39-10 ES KBBL	CA RIVERSIDE	2989 MBR-F	102.50 MS MBIC	-	WILLMAR			106.10			CUMBERLAND		JDI-M
99.10 TR KBBA	TX HOUSTON	1104 CHO-DH	102.50 AU WBEN		BUFFALO		JEB-AN	106.10			DENTON		CHOIFL
99.10 AS MOSK	FL JACKSONVILLE	1187 JEB-#W	102.70 ES KIXX	-	MANITOU SPRIM		The second second	106.10			CORVALLIS		JJE-CA
99.10 BU KBUR	ID IDANO FALLS	608 FAC-ND	102.70 TR K115		LOS ANGELES		SRE1HI	106.10			DENTON		ANG-IL
99.30 ES CFOX	BC VANCOUVER	1526 JPT-NM	102.70 NS KCYS	WA	RICHLAND	1018	BHA-TK	106,20		_	MAMILTON	-	BAT-NY
99,30 TR WEZY	FL COCOA	:078 GHA-TX	162.70 AU AURU	MA	RICHLAND	850		106.30		_	BOLIVAR	-	JJEPCA
TRUST AS NEWS	FL MIRAL	1500 BHR-DA	102.90 ES WCC0	75n	MINNEAPOLIS	1574	JJEECA	106.30	Tir KPAn	TX	MEREFORD		199-FL
37.30 AU MAEM	TA CHOSSVILLE	238 ABD-1.	102_90 TR K9UE	TK	HUUSTUK	1104	Linci-Cin	106,30	RS KPAN	TX	PERCEDED		JUEZCA
99-50 ES MDRG	GA DOUGLAS	SSEO TIESCH	102.90 MS KNGC		DALLAS	1274	SCH-UN	106.30	AU KVWD	-	CHEYENNE		RBR-BI
99.50 TR WOYK 99.50 MS WEAY	FL ST PETERSBURG	978 PDY-TX	102.90 AU WBCS	_	MILWAUKEE	473	SCH-DN	106,50	ES WSFL	NC	BRIDGETON	1552	FRC-ND
99.50 RU WARD	DE WASHINGTON	1382 FAC-ND	103.10 ES CFMX		COBURG			106,50			SAM DIEGO		SREIHI
99,70 ES XHDL	KY RENDERSER	567 JEB-PA	103.10 TR 42.TO	LS	Cilcumbus			106.50			KALAMAZDO		301,-00
39,70 TR LINC	COACTUDAD ACUAA	1861 RBU-CT	103.10 MS NUME	-				106.50			MARSHFIELD		FBC-sil
99.70 NS WINT	TH MEMPHIS MI JACKSON	928 Fn0-NY	103.10 Au KJAR		MADISON			106.70			GAINESVILLE		JEAN
23,70 BU ME	TH MERCHIS	1177 REU-CT	103.30 ES KKOV 103.30 TR KEEE		MACOGROCHER			106.70			PRSADENA	100	SHEINI
99,90 ES #79a	TX EL PASO	1670 RSE-MY	103.30 IN KEEL 103.30 NS ANTO		alchita Facus			106,70			DENUER DENUER		GHR2DK
99.90 TR KROK	TX ROBSTOWN		103.30 AD MVEE		ATLANTA			106.70			CONFOE		JED-MA
				3.1	-	200						-	22

PHIZ PR CRLL	STATE/LOCATION D	TRY DIES-FOR
106.90 TR XHPJ	NL PONTERREY	1101 CHOLFL
106,90 HS WKIDE		
106,90 AU WSWT		SS7 FACEND
107.10 ES CIBM	PE RIVIERE BU LO	U1884 DAL-CO
107.10 TR KFLZ	TX BISHOP	928 CHO1FL
107,10 MS KBUZ	MN HUTCHINSON	<b>МОЗЯНЯ 059</b>
107, 10 ALI NONE		0
107.30 ES MABA	FL ST PETERSBURG	1707 FACSHD
107.30 TR KOSZ	ER GROVER LITY	2365 SHELMI
107.30 AS WWW.	FL ST PETERSBURS	1091 PSA-UN
107,30 AU WEGL	Br ELYRIA	613 JEB-KN
107.50 ES W8Y8	PR BOYERTONIA	1505 6mA-TX
107.50 TR 4LUE	CA LOS AMBELES	2474 SHELHI
107,50 RS KNOK	TX FT WORTH	1298 SCHOON
107.50 AU KPPL	CO LAKELAND	699 JEB-AR
107.70 ES WENR	MY ALBANY	1660 PDY-TX
107,70 TR WICT	NC GREENVILLE	839 RLE-LR
107.70 HS GHIC	TX BERUMONT	1192 PSN-08
107,70 AU AKSS	NO ST COUIS	661 FACEND
107.90 E5 WFS1	AD GONDOULIS	1423 PDY-1X
107.90 TR KWVE	DR SAN CLEMENTE	
B-4	TX EDIMBURG	1062 ABD-11
107,90 RS (ULY		

#### PERSONAL BESTS - FM STATISTICS

dBruce Hell-Brantford ON-(12/4/91)
Farthest TR: CJSD-94.3 ON 565 mi.
Farthest Es: KODA-99.1 TX 1248 mi.
Closest unheard states: EE & VT
(Your best bet for NE-WHEA-90.1(Tr)
and for VT-WHON-94.9(TT)-fjn)

Bill Nienaiadly-Clifton NJ-(1/30/92) Best NE Frequency: 99.7-7 loggings. Best Es Frequency: 92.1-18 loggings. Sest Frequency: 92.1-23 loggings. Closest unheard state: NE (What about WNEA 90.17-1jn)

Fred Mordquist-Clay MY Parthest TR: Little Rock 94.1/95.7/ 98.5 at 1043 at. Farthest Es: RCEP-88.1 MV Las Vegas at 2129 mi. Closset unbeard state: NM

TDI	DIER MARE	DIER	LECATION	LAT	A. LUNG M.	
AND-	ANDY BOLIN	Iù	COGNION  DARLESTON  DARLESTON  DEMBROASE LINES  UNITY  CEMBROASE LINES  UNITY  CEMBROASE LINES  UNITY  STELLAFIER  BROWNERS  BROWNERS  BROWNERS  BROWNERS  BROWNERS  BROWNERS  BROWNERS  CAN  CAN  CAN  CAN  CAN  CAN  CAN  CA	39	10 88 10	
BELF	BRUCE ETATAR	Ulin	SOMEOURS STATE	25	59 86 11	
C101-	COOL DE SERVINCTUR	Die	UNIONTONS	40	59 81 25	
CHRI	COST DIS HOST HOTON	Ç.	ST PETERSBURG	27	46 82 38	
50x -	DOUG BLIEN	TO.	MEGGLAND PARK	39	0 105 3	
DBU-	DANNY BUNTIN	64	STILLWATER	35	7 97 4	
DHG-	D. BRUCE HALL	Gr.	BRANTFORD	43	8 80 .5	
040-	DEHNIS MGE	IA	ANGSGAR	43	53 35 22	
Det1 -	DAVID HIERAN	MA	RICKUM	43	. 78 30	
FAU-	FRANK ADEN	CIRC	HEND .	44	3 121 13	
EBD1	FRANK RULA	10	DU10C	40	17 101 25	
Cana	FORE MECOSINGS	ND.	DES CHES	3.5	50 96 48	
THE	EDONK REDDELL	87	871 QH	42	5 83 40	
FREL	FRANK MERRILL	Ti	MACOM	40	27 90 40	
FREE	FRANK MERRILL	GH	TOLEDO	41	33 83 38	
FNO-	FRED *ORDQUIST	MY	CLAY	43	8 76 8	
6C0-	GREG COMIGLIO	RY	WILLIAMSVILLE	42	59 78 43	
Geeff-	WERN HAUSER	1 X	And Court	53	10 38 31	
SANG	TOW CORDS	O.	(2) 3×30	36	22 41 23	
JUU-	TOWN COURS	2	ALMAND TON	2.0	50 91 17	
15.83	Then FRE ING	BA.	200511	47	. 92 32	,
JFE-	JUSEPH FELR	mJ.	S PLAINFIELD	40	35 74 25	
JJE-	JOHN JEFFERSON	CA	COMCORD	37	59 122 2	
11ES	JOHN JEFFERSON	CA	PLEASANTON	37	40 121 53	
JJE4	JOHN JEFFERSCA	CA	ANTIOCH .	37	59 121 48	
11/1-	JIN P1221	20	LUVINGTON	36	57 120 24	
SMIT	AND PARKET	LIB	CONTRACTOR &	28	65 77 11	
SRI-	AIKE RUSAI	ET	ENFIELD	41	58 72 36	
8Com	WIRE CHERRY	38	5AHG28	46	51 123 30	
MDA-	MIKE DALTON	FL	DLEARWATER.	27	58 82 48	
MSI-	MATT STITEL	1 N	KINGSPORT	36	35 95 33	
MSIL	MATT SITTEL	PE	RALEIGH	35	47 78 39	
NDI-	NEIL DICKERSON	50	SHARPTOWN	38	26 75 38	
PDT-	PAI DIEN	100	SHOW HATUPAU	F3	5 71 1	
DEG-	DETER SOUNTRY	Dist.	METER OF	43	26 60 31	
298-	RUSS BROWN	el	ST JESEPH	42	6 86 29	
RBRI	ROGER BROWN	IA	หิศะธิ	42	2 93 7	
RCG-	- ROBERT COOPER	04	DKLAHDMA CITY	35	28 97 32	
RLE-	ROM LEBLANC	1.6	MARRERU	59	54 90 7	
RSA-	RICK SAMFORD	TK	BURNE IT	30	46 98 14	
RSE-	RUBERT SETBOLD	MY	DUNALKY	40	29 /9 60	
RD IT	DIPUGGA WOOD	-0	SOTON SOURE	35	23 91 1	
SHIP!	S STONESS WOOD	67	FEBRUAR PAT	50	3 = 0 40	
SCH-	SAUL EXERMIS	0×	FOULF INSUS	44	39 78 42	
568	STU GRADE	TA	SIGUX CITY	42	30 96 23	
SRE-	SHELBY KENINGTON	CT	MEN MAKEN	41	18 72 56	
SREI	SHELDON REALHGTON	NI	UPPER KAPOHO	19	29 154 53	
STO-	STEVE TORFFE	In	VINCENNES	36	41 87 32	
SWE	STEVE WEST	PA	HAVERTOWN	33	52 75 18	
WAL.	MA KEPBURM	City	THUNDER BAT	90	14 74 70	
#ISC.	BT HEFBURN	CT	917898 1877898	44	20 72 36	

Heed a handy reference for looking up distances between your DN location and DN targets/catches? See my FH DN report on Page 26 of the Feb 92 VUD for ordering details. The database now covers engl cities in \$5 political units. 73 - Fred.

## PUBLISHER'S NOTES:

THANKS to Dan Cashin for turning us on to the humor of the BIZZARO comic artist Piraro.

You can find collections of Piraro's comics in your local bookstore, or in many daily newspapers. Dan recently helped spread the word about WTFDA and TV/FM DXing at the recent North American Shortwave Association SWL Winterfest near Valley Forge, PA.

And...thanks also to Dr. Bruce Elving for February's cover, and to Greg Coniglio for the coverage map on the March issue.

The Publisher would also like to thank Robert Twomy and Chris Sikorski for recent help with layout, and Dave Nieman and Greg Coniglio for assistance with mailing of the VHF-UHF DIGEST.

## WINECARD OPGRADES PRODUCT LINES

BY RICH WERTMAN

Well, technology is changing again! Winegard of Burlington. Iowa, has just released their new Chromstar 2000 Series Antennas, and Preamplifiers. They have also done away with the T.V. wan line of antennas and reintroduced a Prostar 1000 line of antennas.

First off, the Prostar line, this antenna line was popular about 15-20 years ago. However, the new series is constructed much better. The lineup is like this; 8 VHF/ UHF combos in sizes from 33" to 177" long. 3-UHF corner reflectors, using the famous Winegard Tetrapole Folded Dipole Feed, the sizes are 50"/79"/ll5" long. The VHF line consists of four models from 40" to 175" long, also a 4 element and a Twict F.M. Antenna. A note to Dxurs, all UHF and VHF models are UPS shippable, this is also true on F.M. models.

All antennas are 300 OHM Wing Nut Terminals. The big news, is the new Chromstar line. Winegard has changed all their antennas to be 75 OHM inputs. No more 300/75 OHM Terminal Boards. They now have an ABS Housing with one 75 OHM Down Terminal. This will eliminate alot of the old swappable housings.

The new CA line consists of 7-V/U Models 64" to 177" long.

1- F.M. Beam & CA 6065 127" ID Element 3- VHF Antennas 78"/ 110"/ 187" long 3- URF Corner Yagi's 49"/ 74"/ 95" long

Again the most popular DXER Antennas are UPS shippable. I believe the biggest news is the new Chromstar Preamplifier Line. This line replaces all Winegards previous models, including the AC-Line. GA and CP lines and the PA Line of Preamps. Whats left is on warehouse shelves.

The new amps all are mast mounted and 75 OHM in and down to the power supplys. They also have new stripline construction and better lightning protection. The new AP-4800 replaces the PA-4975 and at a much better price. The new line is now available, so if you need anything in the Winegard

RICH WERTMAN LOCKPORT, NEW YORK (716) 433-0805

## STATION BREAK

line, please drop me a line.

WTFDA STATIONBREAK P.O. Box 514 Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

WANTED - Power transformer for DX-ZQ or HX-11 Amateur transmitters. Will buy whole transmitter if necessary. William J. Draeb - 1304 Ellis St. - Kewaunee WI 54216 (414) 388-2350

FOR SALE - 40 ft. tower, four ten foot sections, standard "tri-pole" construction. Rotor available, also. Best offer. Tape of last 90 min. of WAYA as top 40. Send enough to cover cost of blank plus postage. Full lenghth or scoped available.

Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785

WTFDAers: YOUR ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK, This feature appears on a space available basis. WTFDA and the VMF-UMF DIGEST assume no responsibility for any claims made by advertisers—our trust is implicit, as fellow DXers.